

# **Chemical Week INDEX**

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McGRAW-HILL, INC.  
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<b>A</b>				Pesticide legislation would prohibit or restrict ag imports unless pesticide treated				July	21	14	Stauffer's Houston unit draws censure from Texas Air Control Board				July	21	14								
Abrasives - Carborundum expanding plant in Madras, India				Sept	15	23	Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams				N	Oct	20	69	Sulfur tax on way				Dec	22	16				
Acetal - Gulf Putter has head of injection-molded acetal				July	21	45	Agronomy - Foliage and soil are new "instruments" for measuring pollution				Oct	20	61	Sulfuric acid producers fight EPA's proposed emission standards				Dec	8	33					
Acetic Acid - Celanese's acetic and propionic acids test marketing program for new feed-grain preservative, ChemStor, also as high-energy animal feeds for beef cattle				N	Sept	8	25	Air Conditioning - Air conditioner can "store up coolness" during periods of low power needs				N	July	7	27	Wyandotte, Mich. families file joint air pollution suit				Aug	4	10			
ChemStor groomed as chemical competitor to drying and airtight silos for feed storage				Oct	6	50	<b>Air Pollution</b>							Air Pollution see also <b>Environment</b>											
Acetone - Georgia-Pacific's Plaquemine, La. complex in operation				R	Aug	25	16	Allied will install COALTEK closed-pipeline charging system at Semet-Solvay plant to cut air pollution				R	Nov	10	20	<b>Alcohol</b>									
<b>Acetylene</b>								Asbestos							BASF Espanola's oxo-alcohol plant at Tarragona				R	July	7	45			
French and Swedish gas leaders team up				Sept	15	23	EPA reviews emission standards for mercury, beryllium and asbestos				N	Oct	6	48	Japan: synthetic alcohol plant				R	Oct	20	30			
Tennessee studying the possibility of a 25-mile line to GAF at Texas City				N	Dec	22	31	Illinois announces state-wide hearings on asbestos emission control				N	Oct	13	71	Penn researchers carbonize polyfurfuryl alcohol to produce a carbon-supported platinum hydrogenation catalyst				July	21	24			
<b>Acquisitions and mergers see <b>Industry Developments</b>, also see under individual companies in <b>Company Index</b></b>								Illinois issues new regulations on EPA cracks down on open-air spraying of asbestos products				N	Dec	8	43	Synthetic alcohols: Food applications are the next market				N	Nov	10	61		
<b>Acrylic fiber see <b>Fibers</b></b>								AEC hearings on standards for radiation emission and for emergency core-cooling systems in nuclear power plants to be held in January				N	Dec	15	21	<b>Algeria</b>									
<b>Acrylics</b>								Automotive							Dec	8	14	Corco will buy feedstocks from Soc. Nationale Sonatrach				N	Dec	22	9
Chem-Mill and Coatings compound may solve statuary problems				Aug	25	15	Aid on auto emissions: Chicago class action suit thrown out; antitrust break called for				July	28	15	El Paso-Algerian LNG deal				July	7	15					
Irradiation turns acrylic-oak combination into durable flooring				July	14	37	Dual-catalyst system for autos from ICI				N	Nov	24	33	LNG imports blocked				Aug	11	11				
Superfinishes: thermosetting coatings bid for furniture market				Dec	8	31	Engelhard's PTX platinum-based catalytic device for Ford's '74 cars				Dec	15	39	Marad asks FPC to delve into El Paso's intentions to build cryogenic tankers in France to transport LNG to U.S.				Sept	29	22					
<b>Acrylonitrile</b>								Aug 11-16				Dec	15	39	Six gas ships, maybe				Oct	27	21				
Montedison plant in Italy				R	July	28	15	Ford's new "clean" engine doesn't measure up to Nixon's plan				Oct	6	12	LDPE plant				N	Oct	20	31			
New process to make acrylonitrile from propane				N	Oct	20	69	Griffin, Sen. backing a bill that would give auto makers antitrust immunity for cooperative research in meeting antipollution standards set for '76 models				N	Sept	22	17	Petrochemical complex will use Japanese and Italian engineering				N	Oct	20	31		
Rumanian plant at Pitesti				Dec	1	21	Manganese-based catalyst to control auto exhaust pollutants				N	Sept	8	40	Russians to help Algeria develop its oil-gas and petrochemical industries				N	Nov	24	43			
Acrylonitrile-butadiene-styrene (ABS) see <b>Plastics</b>								NYC new air quality code bans use of leaded fuels after Jan '74				N	July	21	49	Sonatrach awards a construction contract to Pritchard-Rhodes for a gas liquefaction plant at Skikda				R	July	7	45		
<b>Additives</b>								PPG system to trap particulates from automotive exhaust developed				N	Sept	22	74	Spain interested in Algerian proposal to pipe natural gas from North Africa to Europe				N	Oct	6	19		
Chemicals in coatings - report, Dikran Yezoujian (charts & tables)				Oct	20	35	Carbon particles and sulfur dioxide may lower man's ability to fight infection says Penn. State's Zarkower				N	Dec	8	43	U.S. firms can participate in Algeria's industrial development				N	Nov	24	43			
DES: hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested N Oct 20-27				N	Nov	24	14	Delaware's air pollution regulations for sulfur dioxide emissions: Getty Oil and Stauffer Chemical ask for more time to comply with Sept. 1 '73 deadline				Oct	13	21	Alumina - British Aluminum will phase out its chemicals division's Newport plant				N	Aug	11	31			
Animal feed additive gets another going over at new hearings				Dec	22	17	Emission standards for first list of designated stationary sources				N	Aug	18	77	<b>Aluminum</b>										
Sweden has a new "self-destruct" approach to plastic packaging				N	Sept	22	74	Energy - and clean air not as incompatible as some environmentalists would have one believe says Shell's Bridges				Dec	8	20	Alcan's first sale to China				N	July	28	29			
Additives see also <b>Food Additives, Gasoline, Lubricants</b>								EPA clean air standards				Aug	25	14	Alcoa cutbacks in aluminum production at Rockdale, Tex., Badin, N.C., and Massena, N.Y.				N	July	14	33			
Adhesives - Uguine Kuhlmann expanding urea-formal adhesives capacity at Villers-St. Paul				R	Sept	22	48	EPA standards: new sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task				Sept	1	44	Conalco strike goes on				N	Nov	24	21			
Adsorption - Patent literature provides new clues on commercial routes for separating para-xylene by molecular-sieve adsorption				Aug	11	37	Final standards still two weeks away				N	Nov	3	51	Dividends cut by Reynolds and Harvey				Sept	1	8				
<b>Advertising</b>								Eso R&E study aimed at reducing nitrogen oxide emissions from jet aircraft by modifying the fuel				Aug	4	34	European bankers set up organization to stabilize the aluminum market - Aulfiance and Trade				N	Aug	11	18			
Du Pont's Zorex antifreeze: right to promote antifreeze as saline veg.				N	Nov	24	23	Foliage and soil are new "instruments" for measuring pollution				Oct	20	61	Ingot prices N Sept 29-37				N	Oct	13	57			
FTC challenges ads of Procter & Gamble and Firestone				Sept	8	12	GM engineers find national air quality standards are too restrictive				N	July	7	27	Japanese firm to export fabricated nuclear fuel; agreement with the Pakistani AEC				N	Aug	18	87			
FTC may study relation between the advertising of over-the-counter drugs and illegal drug use by youth				N	Nov	3	14	Illinois will attempt to prosecute air polluters as criminals: executives of Steelco Chemical indicated				Aug	11	9	Makers meet to discuss business outlook, pollution				N	Nov	3	19			
<b>Aeronautics</b>								International Paper's Ticonderoga mill doesn't smell: pollution control to prevent the characteristic kraft-mill odor and to treat plant effluent				Dec	1	41	Metals producers hope for '72 upturn, invest for long-term growth (chart)				Dec	8	15				
Costs of operating private airplanes will be asked by L. Gilbert at stockholder gatherings				N	Dec	1	13	Lead additives see <b>Gasoline</b>							Outlook dim, Alcoa's George blames governmental actions for abetting world aluminum oversupply				Sept	22	21				
Eso R&E study aimed at reducing nitrogen oxide emissions from jet aircraft by modifying the fuel				N	Aug	4	34	Mercury-vapor air pollution control system for use in mercury-cell chlorine plants developed by Monsanto's Enviro-Chem Systems				R	Nov	17	24	Producers and Interior Dept. officials explore what can be done about strengthening domestic aluminum production resources				N	July	7	34		
McDonnell Douglas' Malton, Ont. wing spar plant struck				Oct	20	21	Mitsubishi Metal's copper smelting process is economical, pollution-free				N	Nov	24	33	Producers ponder price changes, look for '72 pickup (charts)				N	Nov	17	45			
Runway deicers get set for fast take-off				Nov	24	29	Netherlands study				N	Sept	8	40	Aluminum Assn. - Meeting (annual): Makers meet to discuss business outlook, pollution				N	Nov	3	19			
<b>Aerosols</b>								Northwest AP Authority sets tonnage limit on sulfur compound emissions in industrial area near Anacortes				R	Dec	1	18	<b>American Chemical Society</b>									
Eighth International Aerosol Congress: aerosol business grows faster in Europe than in North America				Oct	20	66	Pollution control costs could curb copper output				Dec	22	17	Meeting (162nd): Comparing notes on research				Sept	22	69					
Paint remover sales take off: new aerosol packaging and a growing outlet in furniture refinishing boost market				Oct	20	65	Portable light meter to measure visible smoke emissions to be marketed by Shell Oil				N	Aug	11	39	Nixon, Alan new president-elect				Dec	15	24				
African Republic of Botswana see <b>Botswana</b>								Project Threshold: 3-year, \$2-million industry-financed study being launched to find ways to assure accuracy of air pollution measurements				Sept	15	29	American Dental Assn. - Toothpaste makers deny Nader's charges that stannous fluoride in toothpaste stains teeth				July	21	13				
Agency for International Development - AID needs some aid				Nov	10	20	Molecular sieves: UC's PureSilv system				N	Dec	8	42	American Gas Assn. - Natural gas industry and Dept. of Interior will launch joint research program to develop commercial coal gasification program				Aug	11	11				
<b>Agricultural Chemicals</b>								Sept 1-44, N Nov 17-65							American Institute of Chemical Engineers - Meeting (64th annual): focuses on processes				Dec	8	42				
Celanese's acetic and propionic acids test-marketing program for a new feed-grain preservative, ChemStor, also as high-energy animal feeds for beef cattle				N	Sept	8	25	Wash.							American Petroleum Institute - Meeting (annual): Energy gap is chief problem facing U.S. petroleum industry				N	Nov	24	21			
ChemStor groomed as chemical competitor to drying and airtight silos for feed storage				Oct	6	50	Pollution control costs could curb copper output				Dec	22	17	American Society for Testing & Materials - Project Threshold: 3-year, \$2-million industry-financed study being launched to find ways to assure accuracy of air pollution measurements				Sept	15	29					
China trade door open				Aug	18	29	Molecular sieves: UC's PureSilv system				N	Dec	8	42	<b>Amines</b>										
Ciba-Geigy and Chemolimpex sign co-operation agreement				R	Aug	4	19	Project Threshold: 3-year, \$2-million industry-financed study being launched to find ways to assure accuracy of air pollution measurements				Sept	15	29	Arnak's plant at Morris, Ill., planned				N	Dec	8	29			
Florida battles giant African snail infestation with metaldehyde				Nov	24	41	A sad tale of sulfur dioxide - Viewpoint				Dec	8	5	UC ethylene amine capacity at Taft, La., boosted				N	Sept	1	33				
Montedison and Hercules agree to exchange research information on agricultural chemicals				R	July	28	15	Sales of industrial air pollution control equipment climb				July	21	55	<b>Ammonia</b>										

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Kellogg offering stripping unit to clean up steam condensate in ammonia plants	N	July	21	49	McLaren, R. and S. Kashiwa leave Justice Dept.; named to federal judgeships	N	Dec	15	17	Gulf United Nuclear Fuels Corp. formed by Gulf Oil and United Nuclear	N	July	14	15
Mechanical design techniques and corrosion inhibitors cut plant downtime - UN Second Interregional Fertilizer Symposium (table)		Oct	13	77	National Steel-Granite City Steel merger: Justice may ease up on antitrust enforcement	N	July	21	9	Japanese firm to export fabricated nuclear fuel; agreement with the Pakistani AEC	N	Aug	18	87
Nederlandse Stikstof Maatschappij increases capacity	R	Dec	22	21	Phase II: McLaren warns business that antitrust pricing provisions have not been suspended	N	Nov	17	17	Japan's nuclear fuel industry considers reprocessing plant to supplement plant government plans at Tokai	N	Dec	15	35
Plants with 3,000-ton/day reactors are technically feasible	N	Sept	8	40	Senate Antitrust Subcommittee legislation is aimed at breaking up the long-established giants in industries dominated by a handful of big companies	N	Sept	15	13	Midland, Mich., nuclear power station support grows	N	Nov	17	23
UC's corrosion-inhibitor system could slash production costs in ammonia plants		Aug	4	32	Shipping contract is crux of U.S. suit with foreign firms	N	Dec	22	16	Nuclear power plants: fewer and farther between	N	Nov	3	15
- letter		Oct	6	5	Warner-Lambert acquisition of Parke-Davis: request for order to restrain FTC from charging antitrust violation denied	R	July	21	15	Nuclear research reactor fuel provides several times the useful life span of previous fuels	N	July	7	27
<b>Ammonium Chloride</b>					<b>Area Development</b>					Nuplex may find home in Puerto Rico	N	July	21	49
CIL plants plant at Cornwall, Ont.	R	Sept	1	10	Delaware officials would welcome Scott Paper expansion		Aug	25	16	PS Commission approves plan	N	July	14	26
Communist China to purchase ammonium chloride from Japan	N	Aug	25	20	Delaware sets up a committee of business and professional leaders to attract other companies' corporate headquarters and related operations to the state	R	Nov	3	19	Platform-mounted offshore nuclear power plants	N	Aug	18	98
Ammonium Perchlorate - Kerr-McGee stops production at Henderson, Nev.	N	July	14	33	Louisiana's Breaux says the surcharge and currency revaluations may especially encourage new projects in the U.S.		Oct	6	14	Thermal pollution see <b>Environment</b>				
<b>Animal Drugs</b>					Texas Gulf Coast needs supertanker facilities study shows		Aug	4	9	<b>Water Pollution</b>				
FDA issues final regulations to consolidate scattered procedures for premarket clearance for new animal drugs	N	Sept	22	31	<b>Argentina</b>					Trojan power plant in Columbia County, Ore., given green light	N	Nov	24	19
Makers of combination antibiotic drugs used in animal feeds are balking at FDA's request for extensive data to substantiate effectiveness	N	Sept	22	31	Chemical producers troubled by growing government involvement	N	Nov	17	31	Underground nuclear blast at Amchitka Island, Alaska, may lead to use of such explosions to tap new sources of natural gas	R	Nov	17	24
Vaccine to stem the epidemic of sleeping sickness afflicting horses in Texas	N	July	28	39	Hydrogen peroxide plant onstream at Rio Tercero	R	Sept	15	24	U.S. breeder-reactor demonstration project gets boost from Congress	N	Aug	4	12
Venezuelan equine encephalomyelitis battle: chemical products, including vaccines and insecticides, are enlisted by government and state agencies		Sept	8	12	Petrochemical development plan will be based on findings in survey		Sept	1	16	Uranium see <b>Uranium</b>				
<b>Animal Feed</b>					Polypropylene plant in Mendoza province planned	N	Nov	17	31	<b>Australia</b>				
Celanese's ChemStor new feed-grain preservative, also as high-energy animal feeds for beef cattle, test-marketing program	N	Sept	8	25	<b>Aromatics</b>					Chemical industry report	N	Sept	29	27
ChemStor groomed as chemical competitor to drying and airtight silos for feed storage		Oct	6	50	Availability of aromatics at refineries will depend on octane ratings in lead-free gasoline the '75 autos can use	N	Aug	25	47	Cresco's land and buildings at Westport, Victoria, acquired by Esso-BHP	N	July	14	40
DES: hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested N Oct 20-27	N	Nov	24	14	Yugoslavian aromatics fractionation plant contract to Snam Progetti	R	Aug	4	19	Cresco's nitric acid and ammonium nitrate facilities at Westport, Victoria	N	July	14	40
Animal feed additive gets another go-over at new hearings		Dec	22	17	<b>Asbestos</b>					Du Pont does not exercise option to bury	N	July	14	40
<b>Anodes</b>					Emission standards set by EPA are under review	N	Oct	6	48	Ethane pipeline across Port Phillip Bay, delayed	N	July	7	40
Metall Associates withdrawing as supplier of metal anodes for chloralkali production	N	Dec	15	39	Illinois announces state-wide hearings on emission control	N	Oct	13	71	Fertilizer industry faces continued profit drought		July	14	43
Near-term future not bright	N	Dec	22	31	Illinois issues new regulations	N	Oct	8	43	Plastics tariff could hurt PE and PVC producers	N	Sept	1	13
Titanium anode for chlorine cells: Olin will install the anode at Augusta, Ga.	N	Oct	27	37	EPA cracks down on open-air spraying of asbestos products		Dec	15	21	Polypropylene plant at Clyde	N	Aug	18	31
<b>Antibiotics</b>					FDA analysis of talcum powder finds as much as 25% asbestos content in samples of two leading brands		July	14	16	Slurry pipelines have a big future	N	Nov	17	65
Makers of combination antibiotic drugs used in animal feeds are balking at FDA's request for extensive data to substantiate effectiveness	N	Sept	22	31	"Unity on asbestos" - Clearing the air - letter		Sept	29	15	Austria - Merger of the petrochemical divisions of OMV and OSW set	N	Sept	29	32
Rifadin effective against TB from Dow		Aug	18	27	Asia see under individual countries					Automation - Decal system, Roll-Mark, will boost consumption of decorated ceramic tile		Aug	25	51
Tetracycline, semisynthetic, introduced by Lederle - Minocin	N	Oct	13	71	<b>Atomic Energy Commission</b>					<b>Automobiles</b>				
Tetracycline cases					Atomic disposal dump near Lyons, Kansas plans scrapped; decision could hold up licenses for new power plants	N	Oct	13	71	Air bags: Controversy over rapid-inflating, balloon-type safety devices		July	28	16
U.S. Supreme Court refuses to hear appeal challenging the way money from court judgment will be distributed	N	Oct	20	17	Hearings on Standards for radiation emission and for emergency core-cooling systems in nuclear power plants to be held in January	N	Dec	8	14	Air bags face new delay		Sept	15	17
U.S. vs Pfizer in tetracycline case	N	Oct	27	20	New cast for AEC: James Schlesinger, and William Doub		July	28	17	Air pollution				
Antifogging compounds - Apollo 15 astronauts using new compound on their helmet visors	N	Aug	4	34	No routine radiation will be released from nuclear power plants using fast-breeder reactors	N	July	21	49	Aid on auto emissions: Chicago class action suit thrown out; antitrust break called for		July	28	15
<b>Antifreeze</b>					Nuplex may find home in Puerto Rico	N	July	21	49	Engelhard's PTX platinum-based catalytic device for Ford's '74 cars Aug 11-16	N	Dec	15	39
Du Pont's Zerex antifreeze: right to promote antifreeze as self-sealing won	N	Nov	24	23	Puerto Rico		July	14	26	Ford's new "clean" engine doesn't measure up to Nixon's plug	N	Oct	6	12
Glycol market warms (chart)		July	21	37	PS Commission approves plan	N	July	21	49	GM engineers find national air quality standards are too restrictive	N	July	7	27
Antimony - Prices	N	July	21	41	Oak Ridge: syntactic carbon foam		July	21	24	Griffin, Sen., backing a bill that would give auto makers antitrust immunity for cooperative research in meeting antipollution standards set for '76 models	N	Sept	22	17
Antimony Oxide - Prices	N	July	21	41	Reorganization will mean a major shift in emphasis in agency's activities		Dec	22	16	ICI develops dual-catalyst system for autos	N	Nov	24	33
<b>Antitrust</b>					Shares know-how on nuclear fuel enrichment		Dec	8	18	Manganese-based catalyst to control auto exhaust pollutants	N	Sept	8	40
Celler, Rep. E., wants an antitrust czar with power to veto acquisitions		Sept	15	18	Shortage of enriched uranium by '79 appears likely: Congressional Committee cites lag in AEC program		July	21	12	N.Y.C. new air quality code bans use of leaded fuels after Jan. '74	N	July	21	49
FTC putting together new yardstick for measuring industry by industry, how likely it is that a company will violate the Sherman or Clayton acts	N	Oct	27	13	Trojan power plant in Columbia County, Ore., given green light		Nov	24	19	PPG system to trap particulates from automotive exhaust developed	N	Sept	22	74
Filtrol drops antitrust suit against Slick; Slick must form a new corporation to take over the assets it sold to Pacific Vegetable Oil	R	Nov	24	19	U.S. breeder-reactor demonstration project gets boost from Congress		Aug	4	12	Catalytic auto muffler use could spark a platinum boom (charts)		Aug	11	16
Fuel firms under fire oil company acquisitions of coal, other energy sources defended		July	28	17	U.S. Court of Appeals rules that the AEC must give more weight to environmental factors for the nuclear power plants it licenses		Aug	4	32	CSMA's Transportation Products Div. '70 survey		Dec	15	42
Griffin, Sen., calls for relaxation of laws so auto makers can exchange emission control information July 28-15	N	Sept	22	17	<b>Atomic Power</b>					Ford's proposed safety car could broaden outlets for plastics, fibers		Aug	4	10
Hart, Sen., proposes plans to break up "concentrated industries" to preserve stability		Oct	6	11	AEC see <b>Atomic Energy Commission</b>					Lead additives see <b>Gasoline</b>				
If antitrust is to be rejiggered into U.S. trade policy new legislation will be necessary	N	July	21	9	Cherry, M., complains that academicians won't testify against proposed atomic power plants because they fear AEC and industry research money would be withheld from their institutions	N	Aug	4	15	Plastics in '72 models - No big gains: auto makers ask suppliers to roll back prices to '70 levels		Sept	15	41
Justice Dept. rules American Petrofina cannot buy former Sinclair Oil properties in 14 Western states from Atlantic Richfield	R	Dec	1	18	GE's nuclear fuel reprocessing plant will use new techniques (flowchart)		Aug	18	91	Wage-price freeze program could hurt U.S. auto industry		Sept	8	13
					Gravel, Sen., wins a promise for Congressional hearings on proposal that would repeal the Price-Anderson Act	N	Aug	4	16	West German auto sales still sluggish	N	Dec	22	19
										<b>Awards</b>				
										Du Pont wins Kirkpatrick Award for Permasep filter development		Oct	6	14
										Hochwalt, Carroll receives '71 Chemical Industry Medal		Oct	13	23
										SAACI's 50th anniversary; will present its first Man-of-the-Year Award to Millmaster Onyx Chairman Robert Milano		Oct	13	25

(N Newsletter, R Roundup.)

## B

Bacteria - Cesco uncovers four new bacterial strains that might accelerate biodegradation of hydrocarbon wastes

Bactericides - Hexachlorophene: FDA's warnings against use crimp sales

Grace preparing a new process to make nitrating from bagasse	Sept	29	21	Boron — Under fire because of alleged harmful effects to vegetation, and interference with sewage-treatment processing	N	Nov	10	61	Polymer Corp. building housing systems plant at Milton, Ont.	Nov	3	46		
Banner, Donald — Candidate for U.S. Patent Commissioner	N	Sept	15	13	Botswana — African nickel-copper development; stock transactions must be ironed out first	N	Aug	4	11	Rayonier Quebec plans to build three dissolving pulp mills in Canada	July	7	10	
Named	N	Nov	17	65	Bottles — Lawrence's new chairman and chief executive officer. He feels that ethics are as vital to a company as profits	N	Aug	4	40	Saskatchewan's new administration worries potash producers	July	7	33	
Barges					Bottling — Ilikon develops "disintegrating bottle" that dissolves when injected	N	July	21	13	Saskatchewan's new government will take a strong role in the potash industry	Dec	22	27	
Plastic spheres will be used to reclaim a 2,400-ton barge from the Gulf of Mexico	N	Aug	18	88	Bottling — Ilikon technique for injection-blow-molding of bottles by hydroxypropyl-cellulose	N	Dec	8	49	Shell reveals pains for polypropylene unit at Sarnia	N	Oct	13	31
Transportation new frontier for innovation — report, John Winton (chart & table)	Sept	29	53		Plastic bottle shipments down	N	Oct	27	29	Sulfur: Alberta's government will issue guidelines for sulfur producers	N	Aug	4	28
Barium — PPG will shut down barium carbonate and barium chloride units at Natrium, W.Va.	Oct	13	22							Sulfur: Alberta's stockpiling program is dead	N	Nov	24	23
Battelle Columbus — R&D spending heads up	Dec	15	36							Sulfur: switch in stockpiling plans could hurt U.S. firms	Dec	1	18	
Battelle Memorial Institute					Brazil					Cancer				
Biodegradable ceramic may make surgical bone grafting obsolete	N	Dec	8	43	Alcoa jungle lab is on its way to analyze mineral deposits	N	Aug	18	88	Camptothecin, potential anticancer compound synthesized at Columbia Univ.	N	Aug	18	87
EPA grant to study the potential usefulness of rubber from discarded tires in blacktop dressings for driveways and parking lots	R	July	28	18	Dow may build HDPE plant in Bahia	N	Oct	13	31	"Conquest of Cancer" agency called for to spearhead the attack on cancer	Sept	15	37	
Project Threshold: 3-year, \$2-million industry-financed study being launched to find ways to assure accuracy of air pollution measurements	Sept	15	29		Foreign companies join locals in major petrochemical building (tables) — letters	Sept	15	14		DDT may be able to slow the growth of a specific cancer	N	Sept	8	40
Battelle Northwest — Overflow treatment system	N	Oct	13	71	Melamine plant at Salvador, Bahia	R	Sept	15	24	Israeli diagnostic test for cancer evaluation	N	July	28	40
Belgium					Petrochemical buildup on two fronts	Dec	8	26		Johns Hopkins Univ. report that carcinogenic materials appear to form free radicals	Sept	22	69	
ABS plant planned by Monsanto	N	Sept	1	5	Tire plant at Americana	R	July	7	45	Caprolactam				
AKU-Goodrich plans polymer plant at Geel	R	July	7	15	Will limit foreign capital in petrochemicals to 1/3 of total investment	N	Sept	29	27	Colombia-Venezuelan unit at Barranquilla	R	Dec	1	21
Chemical exports increase 22% in first quarter of '71; estimates U.S. 10% surcharge will affect only about 3% of nation's export business	N	Oct	13	31	Brill, Richard — Whittaker's senior vice president	N	Nov	3	64	Licensing offer for technology for the production of caprolactam by oxidation of cyclohexane	N	July	14	23
European plant sites report (map, chart, table)	Aug	25	30		Brushes — Scrubbing brush impregnated with silicon carbide called Poly-Grit	Nov	24	31		Turkish plant will use Inventa process	R	Sept	1	16
Graphite electrode plant near Liege	R	Sept	15	24	Butadiene					Carbon				
LDPE plant in Antwerp capacity tripled	N	Sept	29	27	German plant addition	R	Sept	1	16	Carbon particles and sulfur dioxide may lower man's ability to fight infection	N	Dec	8	43
Producers plan to visit USSR in an effort to expand trade and technical cooperation	N	Nov	24	43	Outlook uncertain	N	Nov	3	41	Says Penn. State's Zarkow	N	Dec	8	43
Rubber chemicals plant at Antwerp completed	R	July	28	18	Spain: Calatrava expansion	R	Oct	20	30	Lehigh Univ. conference highlights novel forms of carbon	July	21	24	
Solvay: A new look for European old-timer	Sept	29	29		Japanese process	R	Aug	4	19	Serofim, a joint venture to engage in R&D of high-modulus carbon fibers	R	July	28	15
Solvay's chairman Jacques Solvay: Jogger runs Belgium's biggest chemical maker	Sept	29	68		Butane — Ethylene plants of the future: new accent on heavier feedstocks	Sept	15	31		Carbon, Activated — Calgon develops a molecular-screening activated carbon for separating hydrocarbons and other compounds	N	Aug	18	87
Benzene					Buyers' Guide	N	Oct	27	Pt 2	Carbon Black — Indian unit	Sept	15	23	
Deutsche Marathon will add unit at Burghausen, W. Germany, refinery market outlook: U.S. Tariff Comm. report	R	July	28	15	Calais, Theodore — Du Pont's Central Research Dept. director: No four-day week for this research chief	July	28	48		Carbon Dioxide — Venezuelan plant planned by Gascarb	R	Aug	4	19
Output continues to decline — U.S. Tariff Commission report	N	Nov	24	23	Calcedin Colemanite (calcium borate) — Tenneco Oil shipment to Owens-Corning Fiberglas	N	Aug	11	39	Catalysts				
Prices — U.S. Tariff Comm. report	N	July	7	34	Fiberglass — First domestic shipment of calcined colemanite from Tenneco Oil to Owens-Corning Fiberglas	N	Aug	11	39	Air Products and Haldrup Topsoe joint venture	R	Dec	8	19
Production in first eight months of '71: U.S. Tariff Comm. report	N	Aug	25	37	Calcium Chloride					Auto exhaust-control devices use could double platinum demand by '76 (charts)	Aug	11	16	
Benzenoid imports see tariffs	N	Aug	11	18	Prices — Runway deicers get set for fast take-off	N	Dec	22	27	Enghard's PTX platinum-based catalytic device for Ford's '74 car	R	July	28	15
Benzyl Cyanide — Prices	N	Aug	11	18	Calcium Cyanamide — Hoechst drops production	N	Nov	7	40	Aug 11-16	N	Dec	15	39
Beryllium — Emission standards for mercury, beryllium and asbestos set by EPA are under review	N	Oct	6	71	Calcium Hypochlorite — Prices	N	Dec	22	27	ICI develops dual-catalyst system for autos	N	Nov	24	33
Beverages — Sweden's NIPH stops use of diethylpyrocatechol as a drink preservative	N	Sept	1	43	Calcium Phosphate — Multi-Minerals' plant in Canada	R	July	28	15	Kellogg and British Gas Council: substitute natural gas technology cross-licensing arrangements	N	Aug	18	88
Bins, vibrating, offer new ways to keep bulk solids moving	Aug	4	35		Calcifite — GAF will dispose of operation at Gloucester City, N.J.	Oct	20	22		Manganese-based catalyst to auto exhaust pollutants developed by Eric Robinson	N	Sept	8	40
Burns — Chemicals gridlock	N	Sept	29	37	Canada					Penn researchers carbonize polyfurfuryl alcohol to produce a carbon-supported platinum hydrogenation catalyst	July	21	24	
Blending — In-line blending eliminates tanks and complicated piping for mixing chemical products (flowsheets)	Nov	24	35		Acadia Fisheries, only supplier for a FPC plant at Canso, Nova Scotia, goes bankrupt	Sept	15	17		Soviet process for the production of pelleted catalyst for the synthesis of methanol and isobutanol license offered	N	July	14	23
Blood — Esso Research's separation technique adapted for use in blood oxygenation	Sept	22	69		Calcium phosphate plant in Canada could lose as much as 4% in sales as a result of the 10% U.S. import surcharge	N	Sept	29	27	Support system for platinum gauze catalyst for nitric acid plants	N	July	28	39
Boats					CIL sells interest in Millhaven, pulls out of fibers	July	7	41		UOP fluid-bed cracker for Pord and proved	Sept	8	14	
Nomex as boat-building material	July	21	46		Canadian roundup	Dec	1	21		UOP's Logan: Hoping the company's single converter can cut two types of emissions	July	28	15	
World's first all-urethane boat, dubbed the Pike, designed by Tedruth	Sept	22	61		Chemical makers would swap energy for access to U.S. markets — A neat Canadian caper — report (charts & table)	Aug	11	25		Caustic Soda				
Boilers — European boiler treatment compound, Panolin, making bid for the American market	Oct	27	41		Slave to fashion — CIL and Chemcell report increased sales and earnings in the first three quarters of '71	Nov	10	19		Chlorine-caustic picture upset by needs of developing countries (charts)	July	28	22	
Bolivia					Ethylene joint venture of Du Pont, Dow and Polymer Corp. considered	Sept	1	13		GAF suspends manufacture of liquid chlorine and caustic soda at its Linden, N.J., plant because of mercury problem	Oct	6	13	
New military regime is seeking foreign investments to develop its mineral resources	N	Sept	8	19	Gulf Canada's McAfee: "Disastrously low profitability" leads to chemical cut-backs	Aug	25	13		Indian plant under construction	R	Dec	22	48
Oil and petrochemical joint-venture possibilities with Costa Rica discussed	N	July	21	35	Mainland China wants to boost trade with Canada, but would eschew dealing with Canadian subsidiaries of U.S. companies	July	14	40		Prices going up	Sept	18	17	
Zinc marketing trouble, deal with Kanematsu Goshio falls through	N	July	21	35	Nova Scotia initiates bankruptcy proceedings against Cardinal Protein	Nov	3	23		Cefis, Eugenio — Montedison's president pinpoints his problems	July	21	29	
Bonding — Upjohn's Fine Chemicals Div. develops Photocid, light-sensitive polymer that bonds itself to other materials	N	Oct	6	48	Petrofina of Canada will temporarily close metal powder operation at Pointe-aux-Trembles, Que.	Oct	13	57		Cellulose				
Boric Acid — U.S. Borax plans boric acid and borax unit near Madras, India	Sept	15	23		PE for molding beer cases	N	Dec	1	29	French aid in building plant in Russia	N	Aug	18	31
					Polymer Corp. asks for a finding that imports of styrene-butadiene rubber by Goodyear be considered dumping of the material by its Japanese producer	N	Sept	1	33	Ilikon's "disintegrating bottle" has layer of hydroxy propyl cellulose	July	21	13	
										Monsanto process for making cellulosic materials fire retardant	N	Aug	25	47
										Centrifuges — Designed for dewatering chemical plant wastes, centrifuges can cut the costs of secondary treatment and incineration	Dec	15	15	

(N Newsletter, R Roundup.)



**Ceramics**

Biodegradable ceramic may make surgical bone grafting obsolete . . . . .	N	Dec	8	43
Decal system, Roli-Mark, will boost consumption of decorated ceramic tile . . . . .	Aug	25	51	
GE-MOV metal oxide varistors - new family of semiconductors . . . . .	N	Dec	22	31

**Chemical Industries Assn. (U.K.)**

John Bull bears on chemicals . . . . .	Nov	24	51	
U.K. chemical industry faces problems of harmonization of British laws with those of the Common Market . . . . .	Nov	24	43	
U.K. metrics advance . . . . .	Oct	20	29	
Chemical Specialties Manufacturers Assn. - Government regulations head list of topics at meeting . . . . .	Dec	15	42	
Chemical Transportation Emergency Center - MCA sets up a new means of providing safety information to those handling hazardous chemicals . . . . .	N	Sept	8	25

**Chemical Week Reports**

Chemicals in coasts, e.g., Dikran Yazujian (charts & tables) . . . . .	Oct	20	35	
European plant sites report: The pulses and pitfalls of building a plant in Europe (maps, charts, table) . . . . .	Aug	25	23	
Maintenance management sharpens its skills to meet profitability challenge. Kenneth Brooks (charts & tables) . . . . .	Dec	1	45	
The man in the middle is doing fine. Donald P. Burke (charts & tables) . . . . .	July	28	32	
A neat Canadian card (charts & table) . . . . .	Aug	11	25	
Plant sites '71. J.M. Winton (charts & tables) . . . . .	Oct	13	35	
Transportation new frontier for innovation. John Winton (chart & table) . . . . .	Sept	29	53	
West Germany: Up goes mark, down go German profits (charts) . . . . .	Sept	22	33	
Will Heath's pump-priming spark British recovery? (tables) . . . . .	Oct	6	37	

**Chemical Week Special**

Nader vs. Du Pont . . . . .	Dec	1	31	
1. - The Raiders throw the book at Du Pont . . . . .	Dec	1	35	
2. - It started with a phone call . . . . .	Dec	1	36	
3. - The Raiders: Who they are, how they work . . . . .	Dec	1	36	
Du Pont answers the charges of Nader's Raiders . . . . .	Dec	8	36	

**Chemshow '71**

Preview: What to look for at the biennial extravaganza . . . . .	Nov	10	30	
N.Y. is a Christmas shopping paradise. Chemshow visitors . . . . .	Nov	10	38	
Exclusive in CW: Floor plans that show who's exhibiting where . . . . .	Nov	10	40	
Latest alphabetical exhibitor list with addresses, booth numbers . . . . .	Nov	10	48	
Process equipment makers take the floor . . . . .	Dec	8	41	

**Chile**

Nationalization of Industrias Quimicas Du Pont asked . . . . .	R	Nov	3	17
Nationalization of U.S. copper operations: how much will Chile pay? . . . . .	July	21	15	
Government payments will be based on book-value figures . . . . .	July	28	10	
Washington takes dim view of decision not to compensate Anaconda and Kennecott . . . . .	N	Oct	20	17

Petroquímica Chilena contracts Lummus British subsidiary to design and engineer a \$40-million petrochemical complex at Concepcion . . . . .	N	Sept	15	21
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**China, Communist**

Alcan Aluminum's first sale to China . . . . .	N	July	28	29
Canada's Polymer Corp. chairman Rowzee says Communist China could be a market for Western chemical technology, particularly for production of man-made fibers . . . . .	N	July	28	29
ICI sends seven-man mission to Peking . . . . .	R	Dec	1	21
Japan to try to boost trade with mainland China N Oct 27-43 . . . . .	N	Nov	17	31
Japanese-Chinese fertilizer agreement . . . . .	N	Sept	1	13
Kerosene price war in Hong Kong? . . . . .	N	Dec	8	29
Mainland China trade could open door for U.S. age chemicals . . . . .	Aug	18	29	
Mainland China wants to boost trade with Canada, but would eschew dealing with Canadian subsidiaries of U.S. companies . . . . .	N	July	14	40
Negotiations to purchase ammonium chloride from Japan: buying and selling, oriental style . . . . .	N	Aug	25	20
Nixon's planned China visit will affect U.S. - Soviet relations . . . . .	N	July	22	51
Wants to export oil to Sweden . . . . .	N	Sept	22	51

**China, Nationalist**

PE expansion plans approved . . . . .	R	Dec	22	21
Taiwan: Oriental Chemical Fiber will build polyester filament plant . . . . .	R	July	7	45
Taiwan out of the UN, still in with business . . . . .	Nov	3	45	
Taiwan Vinyl Chloride Corp. units at Kachiang . . . . .	R	July	21	33
Chlor-alkali - Indian plant . . . . .	R	Sept	15	24
Chlordane - EPA probing pesticides . . . . .	Oct	27	17	

Chlorination - Wintershall's process will permit big savings in making chlorinated paraffins . . . . .	N	Dec	1	43
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**Chlorine**

Chlorine-caustic picture upset by needs of developing countries (charts) . . . . .	July	28	22	
GAF suspends manufacture of liquid chlorine and caustic soda at its Linden, N.J., plant because of mercury problems . . . . .	Oct	6	13	
Kyrin plant planned as Fina take petrochemical plunge (table) . . . . .	Aug	4	17	
Chloroform - Spain's Dequisa plans plant . . . . .	N	Sept	15	21
Chromium - Sovill Mfg.'s process for saving plating wastes . . . . .	Sept	15	29	
Citric Acid - Pfizer studies plant near Southport, S.C. . . . .	R	Oct	20	23
Citrus peels - Sweetener without calories promised by citrus-peel extract, neohesperidin dihydrochalcone (NHD) . . . . .	July	21	21	

**Cleaners**

Consumers Union urges ban on household cleaning products: Economics Laboratory's Finish and Electrocol; Clorox's Liquid-Plumr . . . . .	Aug	25	13	
Scrubbing brush impregnated with silicone carbide called Poly-Grit . . . . .	Nov	24	31	
Wanted: products for CARE - letter . . . . .	Sept	1	4	
Letter . . . . .	Dec	15	5	
Clothes, Industrial - Miet-Textil, joint venture will rent industrial clothes . . . . .	N	July	21	35

**Coal**

Bituminous Coal Research design plans for pilot plant in Homer City, Pa., world's first unit for converting coal into gas is IGT plant due soon . . . . .	Dec	1	17	
Commercial coal gasification plant may be taking shape in the heart of Texas natural gas country . . . . .	N	Aug	18	87
El Paso plans coal gasification plant in New Mexico . . . . .	N	Aug	25	47
FMC will form a consortium to build a coal gasification plant . . . . .	N	Sept	8	40
Fuel firms under fire; oil company acquisitions of coal, other energy sources defended . . . . .	July	28	17	
Gas companies plan to produce methane from coal, naphtha . . . . .	Sept	1	9	
Lummus unit at Bruceton, Pa., to make pipeline gas using USBM's Synthene process . . . . .	N	July	21	49
Lurgi plant to make gas equivalent to natural gas studied by new group . . . . .	N	Nov	3	51
Natural gas industry and Dept. of Interior will launch joint research program to develop commercial coal gasification program . . . . .	Aug	11	11	
Price hike cut . . . . .	Dec	8	20	
Salzgitter offers to build PE plant and coking unit in Poland in exchange for Polish coal . . . . .	R	Aug	4	19
Shortage of natural gas spurs coal gasification development . . . . .	Oct	27	33	
Stack gas emissions are Air Pollution Strike see under Labor - Coal strike U.C. clor, W. Virginia coal mine because it couldn't sell the mine's high-sulfur content coal . . . . .	R	Oct	6	15
Utah reserves low in sulfur content . . . . .	N	Sept	29	51

**Coatings**

Acrylic coatings, from Chem-Mill and Coatings, may solve statutory problems - letter . . . . .	Aug	25	15	
Cabot's silane-coated silicon dioxide is being readied for application as a coating for metals, paper, wood and textiles - it also may help in cleaning up oil spills . . . . .	Aug	22	5	
Chemicals in coatings - report. Dikran Yazujian (charts & tables) . . . . .	Sept	8	39	
DDT coating degrades . . . . .	Oct	13	5	
Fansteel develops chemical vapor-deposition technique to clad process hardware with tantalum . . . . .	Oct	20	35	
Grow Chemical's goal: cash in on coatings . . . . .	Aug	4	33	
Nylons 11 and 12 bid for U.S. plastic molding and coatings jobs . . . . .	N	Dec	1	43
Samson Chemical develops compound to confound graffiti artists . . . . .	July	7	20	
Sprayed fireproofing coatings for steel in pursuit of market held by asbestos fiber: new coatings from TSI Inc., Thermo-Lag . . . . .	July	14	27	
Superfinishes: thermosetting coatings bid for furniture market . . . . .	Aug	11	19	
Titanium dioxide producers see coatings business improvement as key to solving cost and marketing problems (chart & table) . . . . .	Dec	8	31	
Table . . . . .	Dec	22	23	

**Coke**

Depressed market causes cutback in steel-mill coke operations . . . . .	Sept	8	14	
Petrocoke Ltd., will increase capacity of its electrode and steel-grade coke plant at Mizushima . . . . .	R	Sept	1	16

Petroleum coke calcination plant at Burghausen, Bavaria, expansion . . . . .	R	July	7	45
Colemanite - Tenneco completes colemanite plant in California . . . . .	R	Dec	15	22
Colombia - Caprolactam unit at Barranquilla . . . . .	R	Dec	1	21
Columbia University - Stork and Schultz synthesize potential anticancer compound, camptothecin . . . . .	N	Aug	18	87

**Computers**

Digital Equipment develops five new large-scale computer systems . . . . .	N	Sept	15	35
Engineering companies are selling computer services to outsiders . . . . .	Sept	8	35	
High-energy magnetic tapes sound off . . . . .	July	7	36	
Honeywell slashes prices of government purchases, to win a DOD contract . . . . .	N	Oct	27	25
Kellogg's Kelplans: mixed integer programming is the key to a new linear program model . . . . .	N	Nov	10	75
Process engineering computer programs by a joint venture . . . . .	July	7	27	
Confederation of British Industry - Survey discloses a revival of business optimism in the U.K. . . . .	N	Oct	20	31
Conference Board - Survey shows why it's hard to keep a secret . . . . .	Dec	15	36	

**Construction**

Baton Rouge workers laid off during construction slowdown band together to win contract maintenance jobs away from AFL-CIO . . . . .	Sept	1	42	
Canada's Polymer Corp., building housing systems plant at Milton, Ont. . . . .	Nov	3	46	
Contracts in July . . . . .	R	Sept	8	16
Contracts up in October reports . . . . .	Dec	8	18	
F.W. Dodge . . . . .	Nov	10	18	
Elections settle bond issues . . . . .	Aug	18	26	
Housing: five-year boom is a promising prospect for the process industries . . . . .	Aug	18	27	
Housing: National Gypsum counting on construction to spur sales and earnings in the next five years . . . . .	Aug	25	9	
Housing starts - Commerce Dept. data . . . . .	Sept	1	6	
Oil's building boom: What gasoline refining changes mean for chemical plants (chart) . . . . .	Nov	24	18	
Output, housing up - Commerce Dept. report . . . . .	Aug	11	11	
Polyester-resin reinforced "paper" houses approved by FHA . . . . .	July	14	33	
PVC use in construction will grow sharply during the '70s . . . . .	N	Dec	8	29
Reinforced plastics are making new inroads into the construction market . . . . .	R	Nov	17	24
U.S. construction costs up Dodge reports . . . . .	N	Aug	11	10
U.S. expenditures . . . . .	July	7	36	
Consumer Electronics Show - High-energy magnetic tapes sound off . . . . .	July	7	36	

**Containers**

Detroit's program to recycle glass containers may be stymied . . . . .	Aug	11	10	
FDA sets container standards for polishes and aspirins: probe of other chemical packaging set . . . . .	Sept	15	16	
Indian Head Inc., glass container producer, diversifying into plastics . . . . .	N	Dec	15	17
NYC 24 tax on plastic containers battle July 7-12, Sept 8-17, Sept 29-24, R Oct 6-15 . . . . .	Oct	20	21	
Tax ruled "unconstitutional, invalid and void" . . . . .	R	Nov	17	24
PE for molding beer cases . . . . .	N	Dec	1	29
Tokomak not perfectly circular and it is this imperfection that results in heat loss, says Gulf scientists . . . . .	N	July	14	23
Contractors - Capital spending: Contractors predict '72 upturn (chart) . . . . .	July	28	44	

**Contracts**

Chemical industry's move to win higher prices will gain momentum . . . . .	N	July	28	21
Construction contracts in July . . . . .	R	Sept	8	16
Construction contracts up in October reports F.W. Dodge . . . . .	Dec	8	18	
Controllers - EPA standards: new sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task . . . . .	Sept	1	44	
Controls - Solid-state panel instruments, called Quick-Scan 1300, debut . . . . .	N	Nov	17	65

**Copolymers**

Conoco Plastics discontinues PVC copolymers production . . . . .	N	Dec	8	29
Dow Corning introduces wetting agents based on silicone-glycol copolymers . . . . .	N	Dec	15	39
Ethylene-vinyl acetate criss-cross strips lengthen ski season near Bergamo, Italy . . . . .	Sept	1	11	
Montedison develops new tetrafluoroethylene-ethylene copolymer, TE . . . . .	N	Aug	11	39

**Copper**

Botswana nickel-copper development; stock transactions must be ironed out . . . . .	Aug	4	11	
Chile's nationalization of U.S. copper operations: how much will Chile pay? . . . . .	July	21	15	

Government payments will be based on book-value figure	N	July	28	10
Washington takes dim view of decision not to compensate Anaconda and Kennecott	N	Oct	20	17
Kennecott and Amax wrangle with Puerto Rico over copper mining terms		Oct	27	17
Kennecott cutting back its operations at Salt Lake City		Nov	3	18
Metals producers hope for '72 upturn, invest for long-term growth (chart)		Dec	8	15
Mitsubishi Metal's copper smelting process is economical, pollution-free	N	Nov	24	33
Outlook dull		Dec	1	18
Phelps Dodge expects good year for copper, air pollution control costs could curb output		Dec	22	17
Pilot plant to get elemental sulfur from sulfur dioxide in smelter gas	N	Sept	29	51
Prices	N	Dec	1	29
Rust Engineering has cooperation and licensing agreement with Boliden, A.B.	N	Aug	4	34
Scovill Mfg.'s process for saving plating wastes		Sept	15	29
Strikes see under Labor - Copper strikes				
U.S. Smelting Refining and Mining projects doubling of copper production rate and sharp upturn in earnings		Oct	13	27
<b>Corfam</b>				
Du Pont's Corfam goes to Poland		Nov	17	22
New poromerics rush in where Corfam fears to tread, who's who in poromerics (table)		July	7	30
<b>Corrosion</b>				
Ammonia: mechanical design techniques and corrosion inhibitors cut plant downtime (table)		Oct	13	77
Dow reveals pricing system for corrosion inhibitor system for ammonia and hydrogen plants using monoethanolamine stripping	N	Oct	13	71
European boiler treatment compound, Panorm, making bid for the American market		Oct	27	41
UC's corrosion-inhibitor system could slash production costs in ammonia plants		Aug	4	32
<b>Cosmetics</b>				
Natural cosmetics will make solid market gains during the decade		Dec	22	36
Proteins add muscle to toiletries and cosmetics		Aug	4	21
Talcum powder: FDA analysis finds as much as 25% asbestos content in samples of two leading brands of talcum powder		July	14	16
Costa Rica - Oil and petrochemical joint-venture possibilities with Bolivia discussed	N	July	21	35
<b>Costs</b>				
Airplanes: costs of operating private airplanes will be asked by L. Gilbert at stockholder gatherings		Dec	1	13
Centrifuges designed for dewatering chemical plant wastes can cut the costs of secondary treatment and incineration		Dec	15	37
Lead-free gas: new study says EPA's costs for lead-free gas are too low (table)		Oct	13	59
Maintenance costs are climbing: SEC data (table)		July	7	19
Maintenance management sharpens its skills to meet profitability challenge - report, Kenneth Brooks (charts & table)		Dec	1	45
Metric system changeover recommended by Commerce's Stans, for CPI tab could run to \$1 billion		Aug	11	35
Oil's building boom: What gasoline refining changes mean for chemical plants (chart)		Sept	1	6
Plant sites '71 report - transportation costs, J.M. Winton (charts & tables)		Oct	13	38
Pollution control costs				
Companies may apply for rapid write-off of pollution control equipment	N	Nov	24	14
Five-year cost estimate to clean up pollution in the U.S. is \$105.2 billion	N	Aug	11	14
How to save on pollution outlays - tax-exempt bonds (table)		Nov	10	65
Netherlands: Gulf may have to spend \$1 million to lessen noise and optical pollution problems at Rozenburg ethylene plant	N	Sept	8	19
Netherlands' expenditures will increase	N	Sept	8	40
The pace keeps quickening - CW's second annual survey (table)		Sept	8	31
West German legislation would mean pollution control cost will be \$2.2 billion in next five years	N	Aug	4	20
White House task force is overseeing a study on the economic impact and cost of massive pollution control	N	Nov	3	14
Trade shows: how to cut display costs by avoiding overtime, reducing space and shipping weight, designing reusable booths		Nov	3	49
Transportation new frontier for innovation - report, John Winton (chart & table)		Sept	29	53
UC's corrosion-inhibitor system could slash production costs in ammonia plants		Aug	4	32
Union Carbide's Group 1: chemicals and plastics division says reduced operating costs, new product mix will boost its earnings: 7-10% through '80		Oct	20	57
Cotton - Consumption headed up - Textile Economics Bureau report	N	Oct	13	57
Credit Research Foundation - Figures show modest improvement in chemical credit	N	July	7	33
Cresylic Acid - Merichem ups capacity	R	Oct	13	29
Cunningham, C. Preston - Monsanto's Industrial Chemical Co. managing director. On weekends 'Mr. Detergent' goes fishing		Nov	24	56
<b>Cyanide</b>				
Calgon's packaged cyanide-destruction unit is looking for work	N	Nov	3	51
FDA proposes ban on household products containing cyanide salts		Oct	20	23
Cyclamates - Bill would reimburse cyclamate manufacturers for losses incurred under cyclamate ban		Oct	6	13
Cyclic Intermediates: The man in the middle is doing fine - report, Donald P. Burke (charts & tables)		July	28	32
<b>Cyclohexane</b>				
Licensintorg offering technology for the production of caprolactam by oxidation of cyclohexane	N	July	14	23
Prices	N	Oct	20	55
Czechoslovakia - Akzo providing technology and equipment for nylon fiber plant	R	Aug	4	19
<b>DDT</b>				
Biodegradable versions of DDT developed by researchers from Univ. of Illinois	N	Aug	4	33
Cancer: DDT may be able to slow the growth of a specific cancer	N	Sept	8	40
Controversy still raging		Sept	29	22
EPA will hold hearings on cancellation or remaining uses N Aug 11-39	N	Aug	25	15
Envirotech pilot plant will remove even the traces of DDT from industrial waste waters	N	Aug	4	33
Davidson, Ray - Joint management-labor safety committees suggested		Nov	17	25
Decal system, Roll-Matic will boost consumption of decorated ceramic tile		Aug	25	51
Deicers - Runway deicers get set for fast takeoff		Nov	24	29
Denmark - PVC plant	R	July	28	15
Deodorants - Nader wants FDA to tighten control on soaps and deodorants containing hexachlorophene, charging that chemical causes brain damage in animals	R	Dec	8	19
Depreciation see Taxation				
Desalting see Water Treatment				
Desserts - Getting agents find a new market in frozen desserts in France		Aug	18	43
<b>Desulfurization</b>				
Europe's first plant for desulfurizing heavy fuel oil will be built in Gothenburg, Sweden	R	Oct	27	19
Japanese plant at Nihama	R	July	28	15
Maine environmentalists defeat proposed desulfurization project of Maine Clean Fuels, Inc.		Aug	4	12
<b>Detergents</b>				
Boron under fire because of alleged harmful effects to vegetation, and interference with sewage-treatment processing	N	Nov	10	61
Consumers Union urges ban on household cleaning products: Economics Laboratory's dishwasher detergents		Aug	25	13
Detergent phosphate replacement				
NTA issue could become even more controversial due to series of industry-supported interim reports	N	July	7	9
Evidence that soda ash and silicate is a poor and dangerous replacement for phosphate in detergents continues to mount	N	July	28	21
Nonphosphate detergents boost the use of nonionic surfactants		Aug	18	35
- letter		Sept	8	5
Purex boosts nonionics		Aug	18	39
Washington hearings: CU's Lushbaugh urges a return to soap while industry develops a safe phosphate replacement	N	Nov	3	23
Nonphosphate detergents hurt sodium tripolyphosphate output	N	Dec	1	29
Surface-active agents developed by IIT show promise of eliminating the need for phosphate in home laundry detergents	N	Dec	1	43
<b>Detergent phosphates</b>				
Florida's Dade County ban				
Agreement to limit phosphorous to 8.7% in detergents	N	July	7	10
P&G makes pitch to kill ban		Nov	24	20
Commission votes to ban phosphates by January	N	Dec	8	19
P&G and C-P will stop selling detergents, Lever Bros. will substitute sodium carbonate for phosphates	N	Dec	15	27
Can detergent phosphate finally get a fair trial? (table)		July	7	11
Pennsylvania is latest state to impose restrictions on phosphates		Aug	4	10
P&G challenges a blast by Purex that the industry was pushing phosphate-type cleaners		Aug	18	25
Phosphates are back in favor, the ban on NTA continues		Sept	22	20
Phosphate coming out of the fog? - Viewpoint		Sept	29	5
Phosphate, nonphosphate detergent arguments swirl		Sept	29	23
EPA will channel \$500 million into improving treatment methods of removing detergent phosphates from sewage plant wastes		Oct	6	47
Phosphate fight heats up		Oct	27	16
- letter		Nov	17	5
Lever and Colgate-Palmolive argue for a uniform national limit on detergent phosphate content	N	Nov	3	23
N.Y.'s Erie County phosphate ban challenged by Colgate	N	Dec	15	27
Dry powder, hydrous sodium polysilicates, developed for detergents and cleaning compounds		Aug	18	41
Ecologic detergents - letter, Case for sequestering agents		July	21	5
Flammability standards may cause problems for nonphosphate detergent makers	N	Aug	4	28
Univ. of Chicago Medical School study tests safety of phosphate and nonphosphate detergents	N	Nov	17	51
Diammonium Phosphate - Occidental Petroleum asks FTC approval to spin off its DAP business to Beker Chemical		Nov	24	17
Diethylpyrocabonate - Sweden's NIPH stops use of diethylpyrocabonate as preservative	N	Sept	1	43
Diethylstilbestrol - Hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested N Oct 20-27	N	Nov	24	14
Animal feed additive gets going over at new hearings		Dec	22	17
Dihydrochalcone - Citrus-peel extract, NHD, promises a sweetener without calories		July	21	21
<b>Dimethyl Terephthalate</b>				
Russian plant completed	R	Sept	1	10
Spanish plant in Tarragona	R	Dec	8	28
Teijin postpones Thailand project	N	Aug	4	20
Disinfectants - Wanted: products for CARE - letter		Sept	1	4
- letter		Dec	15	5
Distillation - Perma-Pure Process device continuously removes water vapor from an air stream		Dec	8	43
<b>Distribution</b>				
Management research consultants team up in two new ventures to offer managed warehouses		Nov	3	49
Transportation new frontier for innovation - report, John Winton (chart & table)		Sept	29	53
<b>Drugs</b>				
Alza Corp. scientist V. Place says some foods eaten while taking certain medications can be harmful or even fatal	N	Sept	15	35
Anti-addiction drug hearings in Washington	N	Sept	15	13
Aspirin: Container rules set	N	Sept	15	16
Bayer Pharma Jugoslavia joint venture	R	Sept	15	24
Ciba-Geigy and Chemolplex sign cooperation agreement	R	Aug	4	19
Contraceptives: new class of hormones, 11-beta-methyl-19-norsteroids	N	Aug	4	33
Cooper Labs to acquire two ethical-pharmaceutical manufacturers: Smith, Miller & Patch and Establecimientos Lazier of Mexico		Sept	1	10
FTC may study relation between the advertising of over-the-counter drugs and illegal drug use by youth	N	Nov	3	14
FDA plan to authorize expanded use of Methotrexate debated		Oct	6	13
FDA seeks formal adoption of the requirements that prescription combination drugs must offer an advantage over the components sold separately		Oct	20	23
Hormones see Hormones				
ICI's expansion of pharmaceuticals plant at Cheshire, England completed	R	Sept	29	32
Narcotic antagonists: Drugmakers seek vaccine and pill to fight narcotic addiction		Sept	1	39

Nonprescription drugs: FDA starts review of over-the-counter drugs	Oct	27	17
Revlon and Ciba-Geigy want to swap drug patents, market rights	July	7	13
Smith Kline & French introduces less expensive line of drugs	Sept	22	21
Spain's drug industry asks government to keep foreigners out	Aug	4	11
Stimulants: amphetamine production quotas set by Justice Dept.	N Dec	8	14
Amphetamines and metamphetamines' production must be cut 60% says Justice	Dec	15	23
Tranquilizers: Carter-Wallace case to get the federal government to pay damages for infringement of Carter's patent on meprobarbital; company wins "opening skirmish"	N Nov	3	14
Tranquilizers: FDA may crack down on phenothiazines	R Nov	24	14

**Dyes**

Du Pont planning big Puerto Rico dyes project	Aug	4	12
GAF ponders product shifts at Linden, N.J.	Oct	20	22

**E**

Eberle, William - American Scientists' chairman: Nixon choice to head U.S. trade negotiating team	Oct	6	13
Education - Closed-circuit TV helps researchers keep up with new technology	Nov	10	71
Elastomers - Du Pont's new class of thermoplastic elastomers called Hytrel	R Nov	24	19

**Electric Power Generation**

Cyanamid's Bound Brook, N.J., plant cleanup campaign is under way following tropical storm Doria Sept 8-15	Sept	15	19
European plant sites report (maps, charts, table)	Aug	25	23
Lummus' Orr says some \$400 billion must be invested over the next 15 years to satisfy the anticipated U.S. energy requirement	N Sept	22	73
Nuclear power plants: fewer and farther between	Nov	3	15
Electrochemical fluorination process to make fluorocarbons	N Sept	1	43
Electrodialysis - Webster, S.D., demonstration plant will shut down	N July	14	23
Electrodes - Graphite electrode plant near Liege, Belgium	R Sept	15	24

**Electronics**

Earth Resources Technology Satellite (ERTS) will eye pollution, test the latest monitoring gear	July	14	20
GE-MOV metal oxide varistors - new family of semiconductors	N Dec	22	31
High-energy magnetic tapes sound off	July	7	36
Photopolymers broaden markets in electronics, metal parts	Oct	27	39
Solid-state panel instruments, called Quick-Scan 1300, debut	N Nov	17	65
Electrostatic Precipitators - Environmental forecast: Electrostatic precipitators, where they're used, where they're growing (charts)	Aug	18	77
- letter	Oct	13	15

**Employment**

Chemical hiring: no pickup in '72 (chart)	Nov	3	20
Chemical employment continues to drop	N Sept	15	13
Manpower, Inc., survey on employment needs	July	21	15
NSF's report on unemployment among scientists	N July	7	18
'72 job outlook for scientists and engineers seems better now	N Dec	22	31
UC layoff of 450 employees within the next few months	Nov	24	21

**Energy**

API's annual meeting: Energy gap is chief problem facing U.S. petroleum industry	Nov	24	21
Canadian chemical makers would swap energy for access to U.S. markets - A neat Canadian caper - report (charts & table)	Aug	11	25
Common Market will have a Common Energy Policy	N Dec	1	43
Conoco's McLean suggests three specifics to solve the country's energy short: age	N Nov	10	75
Economists take new look at changing U.S. energy problems	N Nov	10	19
Energy - and clean air not as incompatible as some environmentalists would have one believe says Shell's Bridges	Dec	8	20
Lummus' Orr says some \$400 billion must be invested over the next 15 years to satisfy the anticipated U.S. energy requirement	N Sept	22	73

**Magnuson bills aimed at easing the energy crisis: one would create national energy research fund; the other directs FPC to develop estimates of natural gas reserves**

Magnuson bills aimed at easing the energy crisis: one would create national energy research fund; the other directs FPC to develop estimates of natural gas reserves	Aug	11	9
MCA's meeting discusses problems: profits, pollution, power	Dec	1	16
Plant sites '71 report - comparison of industrial power costs, charges for coal, oil and gas, and proved reserves. J.M. Winton (tables)	Oct	13	42

**Engineering**

Ammonia: mechanical design techniques and corrosion inhibitors cut plant downtime (table)	Oct	13	77
Centrifuges designed for dewatering chemical plant wastes can cut the costs of secondary treatment and incineration	Dec	15	37
Engineering companies are selling computer services to outsiders	Sept	8	35
Ethylene plants of the future: new accent on heavier feedstocks	Sept	15	31
Farmland Industries' phosphate complex at Bartow, Fla., will test a new process for making phosphoric acid	Sept	22	67
GE's nuclear fuel reprocessing plant will use new techniques (flowsheet)	Aug	18	91
Infrared scanning technique for detecting impending equipment failures by use of temperature profiles	Nov	17	66
Metric system changeover recommended by Commerce's Stans: for CPI tab could run to \$1 billion	Aug	11	35
Nylons 11 and 12: New manufacturing methods and a U.S. plant will strengthen nylons in fight for auto and communications markets	July	14	27
Patent literature provides new clues on commercial routes for separating paraxylene by molecular-sieve adsorption	Aug	11	37
Russians offering technology-for-license package with a raft of process and products for the chemical industry (table)	Aug	4	31

**Engines**

Ford's new "clean" engine doesn't measure up to Nixon's plug	Oct	6	12
Turbine engines catch on in trucks and autos, could boost demand for synthetic lubricants	Oct	27	27
Entomology - Malaria-carrying mosquitoes build up resistance to insecticides	Aug	4	36

**Environment**

AEC must give more weight to environmental factors for the nuclear power plants it licenses rules U.S. Court of Appeals	Aug	4	32
Baker, Sen., says cleaning up the environment is a global issue, and it should be handled on a world scale	Dec	8	20
Bissinger: SOCCA can exert leadership in environmental issues	Dec	1	25
Britain's crown jewels tarnished	Oct	20	62
CW survey finds major process industries firms don't mind reporting to SEC on pollution control outlays, but they oppose divulging data on other social issues	Sept	29	42
Detergent phosphates, detergents see			
Dow's Earle Barnes warns on environmental curbs on chemicals	Oct	20	21
Dow's Gerstacker: "Design plants to capture and recycle pollutants. It's good business"	Aug	18	27
Earth Resources Technology Satellite (ERTS) will eye pollution, test the latest monitoring gear	July	14	20
1999 Refuse Act see <b>Water Pollution</b>			
Energy and clean air not as incompatible as some environmentalists would have one believe says Shell's Bridges	Dec	8	20
European nations consider curbs on North Sea waste disposal (map)	July	7	24
Fertilizer rules costly says Agricola's Layton at FI conference	Oct	13	20
Foliage and soil are new "instruments" for measuring pollution	Oct	20	61
Hercules' Brunswick, Ga., naval stores plant cleaning up pollution problems	Aug	25	19
Illinois holds pivotal hearing for setting fertilizer use limits	Sept	1	11
Intentional Paper's Ticonderoga mill doesn't smell: pollution control to prevent the characteristic kraft-mill odor and to treat local effluent	Dec	1	41
Iowa State University researchers find green plants might make sophisticated pollution detectors	N Aug	25	47
Maine environmentalists defeat proposed desulfurization project of Maine Clean Fuels, Inc.	Aug	4	12
MCA's meeting discusses big problems: profits, pollution, power	Dec	1	16
3M's Ling says industry is taking a bad rap on pollution	Aug	4	24
NSF report says a crisis in environmental know-how is shaping up	N July	14	23
NSF report says environmental ignorance has reached crisis stage	July	21	53
- letters July 28-5	Aug	18	5

**Netherlands environmentalists protesting rebuilding of Marbon ABS plant; Rozenburg order to close Gulf's new ethylene plant in Rotterdam protested**

Netherlands environmentalists protesting rebuilding of Marbon ABS plant; Rozenburg order to close Gulf's new ethylene plant in Rotterdam protested	N Aug	25	20
Plant sites '71 report - state and local incentives and services for industrial development, J. M. Winton (table)	Oct	13	50
Plastics disposal: Researchers try to develop degradable plastics for packaging	Dec	8	45
Plastics disposal: Villain in solid wastes?	July	28	26
Pollution control costs			
Companies may apply for rapid write-off of pollution control equipment	N Nov	24	14
Five-year cost estimate to clean up pollution in the U.S. is \$105.2 billion	N Aug	11	14
How to save on pollution outlays - tax-exempt bonds (table)	Nov	10	65
Netherlands: Gulf may have to spend \$1 million to lessen noise and optical pollution problems at Rozenburg ethylene plant	N Sept	8	19
Netherlands' expenditures will increase	Sept	8	40
The pace keeps quickening - CW's second annual survey (table)	Sept	8	31
West German legislation would mean pollution control cost will be \$2.2 billion in next five years	N Aug	4	20
White House task force is overseeing a study on the economic impact and cost of massive pollution control	N Nov	3	14
Republican politicians fighting over who gets 10 environmental regional directorships	N Aug	4	16
Tennessee-Tombigbee waterway: EDF sues to block construction on environmental grounds	N July	21	9
Toxic Substances Control Act N July 28-10	Oct	11	14
Now in the making - tough law	Oct	13	19
Hazardous Substance Act, Amendment 338 to S.1478; death knell for small chemical companies?	N Nov	10	75
Toxicity: worldwide toxicity test for chemicals instead of the current national ones possible	N Nov	3	51
Toy makers are taking advantage of the growing interest in ecology, offer test kits, games, inexpensive monitoring devices	Dec	22	34
U.S. and U.K. take the first step toward exchange of environmental information	N July	28	40
U.S. Court of Appeals rules that the AEC must give more weight to environmental factors for the nuclear power plants it licenses	Aug	4	32
Waste recycling see <b>Waste Utilization, Water Pollution</b>			
Environment see also <b>Air Pollution, Waste Utilization, Water Pollution</b>			
<b>Environmental Protection Agency</b>			
Ruckelshaus: Cool politician patrols vast pollution beat	Oct	6	56
Regulations, standards etc. see <b>Air Pollution, Environment, Waste Utilization, Water Pollution</b> or specific product - <b>Herbicides, Insecticides</b> etc.			
Enzymes - Can enzymes clean up phenolic waste problems?	Sept	22	63
Epoxies see <b>Resins</b>			
Epsom Salt - Prices	N Dec	22	27
Erbium - Nuclear reactor fuel provides several times the useful life span of previous fuels	N July	7	27
<b>Ethanol</b>			
Ethylene plants of the future: new accent on heavier feedstocks	Sept	15	31
Europe's ethylene producers may switch from naphtha to ethane	N Nov	17	31
NGL demand puts squeeze on chemical plants based on ethane and propane	Oct	6	10
Pipeline across Port Phillip Bay, Australia, delayed	N July	7	40
Prices	N Sept	22	59
Shell's Texas expansions to recover liquid ethane	R July	7	15
<b>Ethylene</b>			
Du Pont, Dow and Polymer Corp. considering a joint venture in Canada	N Sept	1	13
Enjay closing plant at Bayway, N.J. N Nov 10-13	Nov	17	23
Ethyl hires Kellogg to begin study of ethylene production facilities at its chemicals manufacturing plant on the Houston Ship Channel	N Sept	8	9
Europe's ethylene producers may switch from naphtha to ethane	N Nov	17	31
Finland takes petrochemical plunge: Neste plans ethylene plant at Porvoo (table)	Aug	4	17
Gulf Coast plants: some may not be built after all	N Nov	17	17
Italy's national chemical plan	Dec	15	31
Japan will be using locally developed know-how in several years	Dec	1	21

Japan will start up three plants early next year	R	Oct	27	19
Netherlands plant at Tokuyama	R	Sept	1	16
Northern Petrochemical's plant at Joliet, Ill., onstream	R	Oct	6	15
Osage Chemical plants plant at Beaumont, Tex.	N	Aug	4	6
Plants of the future: new accent on heavier feedstocks	Sept	15	31	
Production: U.S. Tariff Comm. report	N	Aug	25	37
Russia: pipeline system will link ethylene complex at Nizhnekamsk with Kazan	N	Sept	8	19
Union Carbide boosts ethylene amine capacity at Taft, La., plant	N	Sept	1	33

<b>Ethylene Glycol</b>				
Anti-freeze market warms (chart)	July	21	37	
Rumanian plant planned	R	Nov	24	21

<b>Ethylene Oxide</b>				
GAF closing oxide unit at Linden, N.J.	N	Nov	10	13
Northern Petrochemical's plant at Joliet, Ill., shut by an explosion in heat exchanger	N	Nov	24	23
Rumanian plant planned	R	Nov	24	21
UC to close Texas City unit	N	Sept	8	25
Ethylene Vinyl Acetate - Plastic "snow"	N	Sept	1	11
EVA crisscross strips lengthen ski season near Bergamo, Italy	Sept	1	11	

<b>Europe</b>				
ABS markets (chart)	Aug	25	39	
Bankers set up organization to stabilize the aluminum market - Alufin	Aug	11	18	
Trade	N	Aug	11	18
Chemical makers are becoming more pessimistic about '72	N	Dec	8	25
Common Market: timetable for British entry	N	Nov	3	43
Common Market: U.K. producers see long-range benefits in Common Market entry	Oct	27	45	
Common Market will have a Common Energy Policy	N	Dec	1	43
Ethylene producers may switch from naphtha to ethane	N	Nov	17	31
EEC report says Europe faces a possibly serious recession as a result of U.S. protectionism and uncertainty in the oil companies, ELF-Erap, AGIP, and Petrofin will pool research efforts in petrochemicals	R	Dec	15	33
Patent office could begin functioning in '76	N	July	14	23
Plant sites report - the pulses and pitfalls of building a plant in Europe (maps, charts, table)	Aug	25	23	
Profits fall for Europe's chemical giants: ICI bucks trend (table)	Oct	27	51	
Titanium dioxide buildup	Dec	22	24	
Exploration - Philippine Geothermal to explore for geothermal energy (natural steam or hot water) in a volcanic area in SE Luzon	R	Sept	29	24

<b>Explosions</b>				
Du Pont's Moosic, Pa., explosives plant damaged by blast will shut down production except for immediate DOD orders - letter	R	Aug	11	10
Hercules' Radford, Va., gunpowder preblending plant explosion	R	Sept	8	16
3M plant blast at Newark, N.J., caused by ignition of vapors from cleaning solutions	Aug	4	11	
Mobay's nitric acid unit at New Martinsville, W. Va., explosion	R	Nov	17	24
Northern Petrochemical's ethylene oxide and glycol plant at Joliet, Ill., shut by an explosion in a heat exchanger	N	Nov	24	23
Oxirane's Bayport, Tex., plant fire and explosion: cause of the blast not yet revealed	N	July	7	33
Plant now onstream	N	Sept	1	33
Petro-Tex's purification system in the main butadiene unit at its Houston plant damaged by fire and explosion	N	Sept	22	59
VCM tank cars explode as 18 cars of Missouri Pacific freight train derailed in Houston, Tex.	Oct	27	20	

<b>Explosives</b>				
Chile asks for nationalization of Industrias Quimicas Du Pont	R	Nov	3	17
Du Pont's Moosic, Pa., explosives plant damaged by blast will shut down production except for immediate DOD orders - letter	R	Aug	11	10

<b>Exports</b>				
Aluminum in a slump (charts)	Nov	17	45	
ASP see Tariffs				
American Standard's Eberle: Nixon choice to head U.S. trade negotiating team	Oct	6	13	

<b>Balance-of-trade</b>				
Chemicals key in trade balance (charts)	Aug	4	26	
Dock strikes have darkened U.S. balance-of-trade picture	Dec	8	20	
Government charts point up R&D's role in trade	July	7	28	
- letter	Aug	4	4	
Imports up, exports dip	Sept	8	16	
Nixon given emergency authority to impose broad new curbs on imports, including a hike in the surcharge to 15%	Nov	17	24	
Plus for chemicals - Commerce Dept. data	Nov	10	18	
Trade and the balance of payments may become lively topics in Congress in September	N	Aug	11	5
U.S. chemical trade balance is shrinking swiftly	N	July	7	10
Belgian chemical exports increase 22% in first quarter of '71	N	Oct	13	31
Chemical and allied product shipments are up and inventories are down - Commerce Dept. report (chart)	Sept	15	17	
China, Communist wants to export oil to Sweden	N	Sept	22	51
Commerce Sec. Stans says U.S. industry needs help to make it more competitive at home and abroad	N	Aug	4	6

<b>East West trade</b>				
Boost in Soviet trade with the West is expected to result from the visits by top Soviet leaders to Algeria, Canada and France	N	Nov	3	43
Canada's Polymer Corp. chairman Rowzee says Communist China could be a market for Western chemical technology, particularly for production of man-made fibers	N	July	28	29
China trade door open	Aug	18	29	
Nixon's authorization of Export-Import Bank credits for sale of U.S. goods to Rumania viewed as preliminary move to granting the same to the USSR	N	Dec	15	35
Nixon's planned China visit will affect U.S. Soviet relations	July	28	18	
Russia seeks joint ventures with West	Oct	20	29	
Russians set to trade?	Nov	17	38	
Russians sign technical cooperation agreements with Hoechst and Henkel	N	Nov	24	43
Tenneco deal would swap American-built ships and grain farm equipment for Russian natural gas and oil	N	Dec	8	14
U.S. delegation representing chemical engineering and equipment firms off to Russia and Rumania	N	Nov	3	43

<b>Fertilizer exports ready to end two-year slump (charts)</b>	Sept	15	27	
- letter	Dec	15	5	
Foreign traders urge return to multilateralism, dropping of surtax	Nov	24	17	
Great Britain: John Bull bears on chemicals	Nov	24	51	
Great Britain's exports and imports in first-half '71	Aug	18	31	
Hong Kong's new plan for limiting exports of man-made and woolen textiles to the U.S. is "totally unacceptable"	N	Sept	22	17
to Washington	N	Oct	27	19
Israel's chemical exports	R	Oct	27	19
Israel's pesticides industry banks heavily on know-how and export sales	July	14	43	
Japan signs a new five-year trade pact with USSR	N	Oct	26	43
Japan to try to boost trade with mainland China N Oct 27-43	N	Nov	17	31
Japan's edge in chemical trade: Fair or foul? (charts)	Aug	18	23	
Japanese chemical export prices will go up	Sept	1	5	
Japanese textiles: How much will textile pact hurt?	Nov	10	87	
MCA's midway meeting: the international monetary and trade crises and the impact on chemical companies' foreign and domestic profits	N	Nov	24	13
McCracken spells out figures behind Administration's policy shift	Sept	29	22	
NFTC survey reports U.S. overseas production has not cut U.S. exports	Nov	24	17	
Pemex builds for export	July	7	44	
Presidential Commission on International Trade and Investment policy report doubtless will add to the monetary controversy	N	Aug	18	18
Presidential Commission on International Trade and Investment study recommends repeal of ASP valuation system - letter	Sept	22	24	
Spanish exports increase	Nov	17	5	
Textiles in the red: Commerce Dept. 10-month import/export figures	Dec	22	14	
Trade bill see Tariffs - Trade bill	Dec	15	23	
Trade negotiating authority for the President may be broadened	Oct	6	12	
U.S. chemical trade in August - Commerce Dept. figures	Nov	10	30	

<b>Fertilizer exports ready to end two-year slump (charts)</b>	Sept	15	27	
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<b>Expositions</b>				
Chemshow '71	Nov	10	30	
Preview: What to look for at the biennial extravaganza	Nov	10	30	

<b>N.Y. is a Christmas shopping paradise for Chemshow visitors</b>	Nov	10	38	
Exclusive in CW: Floor plans that show who's exhibiting where	Nov	10	40	
Latest alphabetical exhibitor list with addresses, booth numbers	Nov	10	48	
Chemshow: Process equipment makers take the floor	Dec	8	41	
National Plastics Exposition in Chicago, will feature new products, technology Oct 27-41	Nov	10	19	
Trade shows: how to cut display costs by avoiding overtime, reducing space and shipping weight, designing reusable booths	Nov	3	49	

## F

<b>Farmer, Thomas - Borg-Warner's new president of chemical and plastics group: At home in lab, in boardroom - and abroad</b>	Dec	1	56	
<b>Fatty Acids - Chemicals in coatings - report, Dikran Yazujian (charts &amp; tables)</b>	Oct	20	35	

<b>Federal Power Commission</b>				
Bows to producers, grants gas price boosts in the Southwest	Nov	10	20	
Louisiana rate case hearings may result in ouster of Nassikas as chairman of FPC	July	21	12	
Louisiana natural gas price increase approved: Congress looks at FPC policies	July	28	16	
Magnuson bill directs FPC to develop its own estimates of natural gas reserves	Aug	11	9	
Federal Trade Commission - Challenges ads of Procter & Gamble and Firststar	Sept	8	12	
Fermentation - Upjohn's fermentation and chemical conversion plant in Puerto Rico	R	Dec	8	19

<b>Fertilizer Institute</b>				
Annual conference: Agricola's Layton says environmental concern, restrictions bother fertilizer makers	Oct	13	20	
Domestic fertilizer disappearance up 3%	Sept	8	25	
"Fertilizer Financial Facts" - production, sales, prices, etc.	N	Oct	6	43
Fertilizer sales N Aug 11-18	N	Oct	13	57
Illinois holds pivotal hearing for setting fertilizer use limits	Sept	1	11	

<b>Fertilizers</b>				
Australia's fertilizer industry faces continued profit drought	July	14	43	
Dawood Hercules Chemicals will close Lahore, West Pakistan plant temporarily	R	Dec	15	33
Domestic fertilizer disappearance up 3%	N	Sept	8	25
Environmental concern, restrictions bother fertilizer makers - Agricola's Layton at FI conference	Oct	13	20	
Exports ready to end two-year slump (charts)	Sept	15	27	
- letter	Dec	15	5	
Fisons and ICI want antidumping duties imposed on fertilizer imports	N	Nov	3	23
FI's semiannual "Fertilizer Financial Facts" - production, sales, prices, etc.	N	Oct	6	43
Great Britain: ICI, Fisons, Shellstar agree to share information	N	Nov	10	27
Illinois holds pivotal hearing for setting fertilizer use limits	Sept	1	11	
Indian fertilizer push	July	21	29	
Japan cuts investment	Dec	8	28	
Japanese-Chinese agreement	N	Sept	1	13
Sales up 3% in year ended June 30	N	Aug	11	18
FI's monthly index	N	Oct	13	57
Spain: Union de Explosivos-Rio Tinto and Cros form jointly owned company to consolidate fertilizer sales	R	Dec	15	33
Toyo Engineering to build plant at Tuticorin for the Indian government	Sept	15	23	
Fertilizers see also individual fertilizers: Ammonia, Nitrogen, Phosphate etc.				

<b>Fibers</b>				
Acrylic fibers licensing agreement signed by Sumitomo and Cyanamid	R	Aug	4	19
Autos: Controversy over rapid-inflating, balloon-type occupant-protection devices	July	28	16	
Air bags for automobiles face new delay	Sept	15	17	
Canada's CIL sells interest in Millhaven, pulls out of fibers	July	7	41	
Canada's Polymer Corp., chairman Rowzee says Communist China could be a market for Western chemical technology, particularly for production of man-made fibers	N	July	28	29
Carbon fiber unit at Shiga, Japan, works completed	R	Sept	1	16
Chevron's purchase of Vectra Corp. boosts its stake in synthetic fibers	July	14	15	
Commerce Dept. rules wigs and hairpieces fall under the jurisdiction of the Federal Flammable Fabrics Act	Sept	22	23	



Dow's Western Div. to design and test large hollow fiber modules for desalting brackish waters	N	Aug	18	88	Du Pont: coming on strong in '72; McCoy seeks fiber sales, firmer prices boosting profits	Dece	22	29	Management's view of '72: sales, prices, spending will go up - McGraw-Hill's Economics Dept. survey (chart)	Nov	10	17		
Du Pont wins Kirkpatrick Award for Permasep filter development		Oct	6	14	Du Pont goes to the European money market again	N	Sept	15	21	MCA's meeting: the international monetary and trade crises and the impact on chemical companies' foreign and domestic profits	N	Nov	24	13
Du Pont's acrylic fiber plant at Maydown, Ireland, expansion	R	July	14	16	Economic predictions from the U.S. Commerce Dept. and the N.Y. Stock Exchange (chart)	Sept	8	14	MCA's meeting discusses big problems: profits, pollution, power	Dec	1	16		
Du Pont's McCoy sees fiber sales boosting profits	Dec	22	29		Economics Lab's sales and earnings	Sept	8	16	Metals producers hope for '72 upturn, invest for long-term growth (chart)	Dec	8	15		
Du Pont's "new type of optical fiber"	R	Sept	29	24	Elcor seeking refuge under Chapter 11 of the Bankruptcy Act	N	July	28	9	Mobile, Atlantic Richfield will boost downstream profitability	Nov	24	19	
Croton IIR	R	Sept	29	24	Elcor's "four-point program for growth"	Sept	8	14	Monetary crisis	N	Aug	18	18	
Ford's proposed safety car could broaden outlets for plastics, fibers	Aug	4	10		Emery Industries' Pres. D. R. Hinkley reported sales up, earnings down, outlook bright	July	7	13	International Monetary Fund meetings fail to produce any concrete results for solving the latest monetary crisis	N	Oct	6	9	
Freepore Kaolin develops process for surface-modified pigments, "OX" process	Aug	11	35		Engelhard's President Rosenthal says stock offering deferred because of generally unfavorable market conditions	R	Nov	10	20	Chemical money managers far from optimistic about multinational deal	N	Nov	3	13
Ireland: acrylic fibers expansion delayed by Monsanto Textiles Ltd.	R	Aug	4	19	Ethyl Corp.'s sales and earnings in '71	July	7	14	International trade and monetary picture: here's what to expect	N	Dec	22	9	
Japan cuts investment	Dec	8	28		Europe: Profits fall for Europe's chemical giants; ICI bucks trend (table)	Oct	27	51	Monsanto listed on the Belgian stock exchange	N	July	7	40	
Luminescent fibers tackle optical, high-performance markets	Oct	13	83		European bankers set up organization to stabilize aluminum market	N	Aug	11	18	Monsanto's Swiss subsidiary will borrow about \$12 million in Swiss francs to help finance the parent company's \$50-million Western European expansion program	N	July	14	40
Mexican acrylic fiber plant planned	R	Oct	27	19	Alufinance and Trade	Aug	25	23	Montedison's Cefis pinpoints his problems	July	21	29		
Netherlands: AKZO's quarterly report is gloomy	N	Nov	24	43	European plant sites report (maps, charts, table)	Aug	25	23	Montedison's financial accounts have been turned over to the district attorney of Milan, following charges that the company had a "secret set of books"	N	July	7	39	
Polyesters see Polyesters	Dec	8	17		Europe's chemical makers are becoming more pessimistic about '72	N	Dec	8	25	NAM's "Dialogue for Action" discusses the multi-national corporation	Nov	17	22	
Polypropylene see Polypropylene	Aug	25	16		FRB making plans for combating inflation; expect to see a new credit crunch	N	Nov	3	13	NSF's latest R&D compilation, "Research & Development in Industry, 1969"	Sept	1	40	
Producers seek price increases under Phase II guidelines (chart)	Dec	8	17		Fields Plastics & Chemicals' earnings for fiscal '71	July	14	15	'71 outlook: McGraw-Hill Economics Dept. preview of the U.S. business scene	Dec	1	17		
Scott Paper's paper-fiber plant site may be in either Delaware or Maryland	Aug	25	16		Firststone Tire cancels dividend increase	N	Aug	25	9	Nixon and FRB Chairman Burns have economic policy disagreements	N	Aug	4	5
Serofin, a joint venture to engage in R&D of high-modulus carbon fibers	R	July	28	15	Firststone Tire's sales and earnings in '71	July	7	14	Nixon's game plan	July	7	18		
Soviet fiber buildup	Oct	20	29		Foreign exchange rates agreement: chemical companies will find less incentive to locate abroad; foreign direct investment in the U.S. also should be stimulated	N	Dec	8	13	Chemical executive reaction is mixed to wage-price controls	N	Aug	4	5
Synthetic fibers doing well - Textile Economics Bureau report	N	Oct	13	57	French government's 5-year plan ('71 - '75) calls for industry consolidation, reorganization, heavy investment to expand domestic and foreign markets in chemical products	Nov	24	45	Congressional hearings on creation of wage-price review board	N	Aug	11	5	
Turkey's first acrylic fiber plant on stream	R	Oct	27	19	How French CPI will build capacity to meet government's 5-year goal (table)	Nov	24	48	Let's not lose momentum - Viewpoint	Aug	25	5		
Filters - Grecco's perlit filter aid and filler plant at Crawfordsville, Ind.	R	July	14	16	General Mills' sales and earnings, '71 first half	July	14	15	U.S. companies look like winners	Aug	25	10		
Filtration - Du Pont wins Kirkpatrick Award for Permasep filter development	Oct	6	14		Great Britain: Courtauld's chairman, Lord Kearton, says Britain will have another devaluation within 12 months	N	July	21	35	Chemical producers studying the implications of the price-control measures in Nixon's new economic policy	N	Aug	25	37
<b>Financial</b>					Great Britain: John Bull bearish on chemicals	Nov	24	51	Chemical producers are unimpressed with the news that price ceilings can be based on May 25, 1970 prices	N	Sept	1	33	
Airco cuts salaries, cites depressed business conditions	Sept	22	21		Great Britain: a slump in U.K. spending	Sept	15	24	Wage-price freeze program could hurt U.S. auto industry	Sept	8	13		
Air Products charts global course for chemicals (chart)	Sept	22	53		Great Britain: U.K. rocked by ICI profit dip, gloomy outlook for industry growth	Dec	8	27	How chemical unions view the wage-price freeze	Sept	8	15		
Aluminum dividends cut by Reynolds and Harvey	Sept	1	8		Great Britain: Will Heath's pump-priming spark British recovery? - report (table)	Oct	6	27	What chemical makers want after the freeze	Sept	15	15		
American Cyanamid's sales and earnings: "cautiously optimistic" performance forecasts for last-half '71	July	28	14		GNP: \$100-billion gain in '72 may be overly optimistic	N	Nov	10	13	Industry decision makers await government decision on freeze	Sept	22	19	
Australia's fertilizer industry faces continued profit drought	July	14	43		Grow Chemical's Banks: Credit will enable company "to implement our long-range growth plans"	Aug	4	11	Nixon's Phase II	Oct	13	21		
Balance-of-payments					Gulf Oil's Dorsey: Diversifying, but only in energy and closely related activities	Nov	10	18	First look	Oct	27	5		
Now three ways of calculating BOP	N	July	14	10	Gulf Resources & Chemical's sales and earnings in '71	July	7	14	A chance for prices to catch up with costs? (charts)	Oct	20	19		
To improve during last-half '71	N	July	14	9	Hercules' Brown: He's forecasting at least a 20% increase in industry profits	Oct	27	19	Controls: how much, how soon?	Nov	3	16		
Trade and the balance of payments may become lively topics in Congress in September	N	Aug	11	5	Hoechst reduces working hours at polyester fiber plants	R	Dec	1	21	MacLaren warns business that antitrust pricing provisions have not been suspended	N	Nov	17	17
Bayer merging its six wholly owned subsidiaries to give it a stronger marketing and financial clout	Dec	8	18		Huels' capital spending will be cut 50% in the next two years	R	Dec	1	21	What chemical men can expect (table)	Nov	17	25	
Bolivia's new military regime is seeking foreign investments to develop its mineral resources	N	Sept	8	19	ICI back in the money market	N	Aug	4	20	Needed: plain talk on price rules - Viewpoint	Nov	24	5	
Borg-Warner's five-year plan includes a target for a 77% increase in sales of chemicals and plastics, Chairman Ingersoll says	R	Nov	10	20	Inflation: Cue for a new attack on inflation - Viewpoint	Aug	11	4	Phase II decisions weigh heavily in chemical price, wage moves	Nov	24	18		
Brazil will limit foreign capital in petrochemicals to 1/3 of total investment	N	Sept	29	27	Interest rates				Queuing for price hikes	Dec	1	17		
Bristol-Myers' sales and earnings in '71	July	7	14		Chemical company treasurers eyeing the bond market	N	Sept	15	13	How big a price hike will chemical companies get? (table)	Dec	15	19	
British Petroleum offers stock to help finance group investment	Oct	13	24		Don't look for a continuing climb	N	July	14	9	Labor in '72: Union demands will be tougher despite Phase II	Dec	22	13	
British producers are holding back on capital spending	N	July	7	39	Long-term corporate bond market given boost by declining short- and long-term interest rates	N	Oct	27	13	Occidental Petroleum's first-half sales and earnings	Sept	8	16	
Canada: A neat Canadian caper - report. Sales and earnings for top five chemical producers for the past 10 years (charts)	Aug	11	27		Recent declines in long-term interest rates spurs borrowing by chemical process companies	Sept	22	22	Outlook for long-range growth: about 8% until '85 - McGraw-Hill Economics Dept. report (table)	Dec	22	14		
Canadian profits rise	Nov	10	19		IMC's White says key to sales and earnings growth "lies in its two major and basic products - phosphate and potash"	Oct	13	26	Overseas affiliates of U.S. companies plan more spending abroad - Commerce Dept. survey (table)	Oct	13	22		
Capital appropriation: Process companies cut first-half capital appropriations 10-15% (chart)	Sept	1	10		Ireland: Favorable investment incentives and imminent Common Market entry lend impetus to chemical industry buildup (map)	Sept	8	22	Overseas investments: companies getting a break from OFDI	N	Dec	15	17	
Capital spending: Contractors predict '72 upturn (chart)	July	28	44		Italian government plan seeks to revitalize chemical industry	Dec	15	29	Overseas investments: Foreign traders urge return to multilateralism, dropping of surtax	Nov	24	17		
Capital spending: plant sites '71 report. J.M. Winton (charts & tables)	Oct	13	36		Japan: Revaluation of the yen; what it means to U.S. chemical producers	Sept	8	11	Overseas investments: McGraw-Hill Economics Dept. report	Aug	25	13		
Capital spending rates climb: Commerce-SEC report (table)	Dec	15	22		Japan cuts investment	Dec	8	28	Overseas investments: U.S. chemical industry's foreign business - Recessions abroad, repercussions at home (chart)	Dec	1	15		
Celanese Mexicana maps 10-year buildup	Sept	15	23		Japan's CPI will decrease capital spending in '72	N	Oct	20	31	Overseas investment: U.S. payment-trade deficits may tighten overseas investment rules	Aug	11	9	
CPI treasurers seek balanced position in world currencies; how money managers protect companies during monetary crises	Nov	17	55		Lending rate: commercial bankers talking about raising their prime lending rate	N	Aug	11	6	PPG Industrial '71 second-quarter sales to be at a record high	July	14	15	
Ciba-Geigy borrowing \$24 million for expansion of its U.K. interests	N	July	7	40						Pasco's first-half sales and earnings	Sept	8	16	
Conference Board's survey of the country's 1,000 largest manufacturers in third-quarter '71	Dec	1	17											
Corning Glass '71 sales and earnings	July	14	15											
Corporate financing: For this year they're banking on depreciation (chart & table)	Aug	4	7											
Credit: new lines of credit to be sought	N	Nov	3	13										
Credit Research Foundation figures show modest improvement	N	July	7	33										
Depreciation see also Taxation	Oct	20	33											
Dividends in doubt	Oct	20	33											
Dow's profit program is paying off	Aug	4	29											

Paper firms plan mergers, expansions, high costs crimp profits (table) . . . . .	July	14	14
Phillips Petroleum's sales and earnings, '71 first half . . . . .	July	14	15
Pollution control spending see under Environment			
R&D: Federal R&D turns up . . . . .	Sept	22	70
R&D spending heads up - Battelle forecast . . . . .	Dec	15	36
Sales and earnings:			
Third quarter will be a turning point in chemical companies' financial fortunes . . . . .	N July	21	9
More mixed returns: second-quarter earnings . . . . .	July	21	14
Second-quarter returns confirm upturn is here (table) . . . . .	July	28	13
Chemical profits are picking up - second-quarter results (table) . . . . .	Aug	4	9
First-half '71: how 300 CPI companies fared at mid-year (tables) . . . . .	Aug	11	7
First-half '71 (table) . . . . .	Aug	18	25
First-half '71: chemicals moving well . . . . .	Aug	25	14
First-half reports . . . . .	Sept	1	9
Third-quarter earnings: better than last year, but still not good (chart) . . . . .	Sept	29	19
Third-quarter, estimated earnings . . . . .	Oct	13	28
Third-quarter '71: chemical processors' profit outlook bright (table) . . . . .	Oct	20	20
Third-quarter: chemicals are on the rebound (table) . . . . .	Oct	27	18
Third-quarter final results: Chemical firms end third quarter on bright note (table) . . . . .	Nov	3	18
No letdown in chemicals' third-quarter upturn (table) . . . . .	Nov	10	20
Third-quarter results: Profits take a long lead over productivity (table) . . . . .	Nov	17	20
Third-quarter figures: SEC-FTC survey . . . . .	Dec	22	15
Sales and earnings for individual companies see under company name in Company Index			
SEC says companies registering securities for sale shouldn't use that as an excuse to withhold information from the public . . . . .	N Aug	25	9
Security analysts' meetings hear American Cyanamid, Cabot Corp. and Rohm and Haas spell out their hopes . . . . .	Dec	15	21
Shell Oil and Jersey Standard expect profit hikes in '72 after lopping off less successful ventures . . . . .	Nov	17	23
Spain: U.S. chemical companies set the pace for all foreign investors . . . . .	R Oct	20	30
Standard Oil (Ohio)'s sales and earnings in '71 . . . . .	July	7	14
Stock offerings of individual companies see under company name in Company Index			
Stein, Herbert newly named chairman of the Council of Economic Advisors . . . . .	Dec	8	16
Stock prices . . . . .	N Aug	25	9
Stocks: chemical stocks outlook . . . . .	July	14	9
Sumitomo's profits drop: Hasegawa favors revaluation of yen to slow Japan's economic growth . . . . .	Sept	29	21
Sweden's Nornor reports sales, profits, capital spending . . . . .	Sept	29	32
Swift's nine-month sales and earnings . . . . .	Sept	8	16
Swiss bond market remains attractive . . . . .	N Nov	10	27
Union Carbide's Group 1: chemicals and plastics division says reduced operating costs, new product mix will boost its earnings 7-10% through '80 . . . . .	Oct	20	57
U.S. Smelting Refining and Mining projects doubling of copper production rate and sharp upturn in earnings . . . . .	Oct	13	27
UOP omitting third-quarter dividend . . . . .	Sept	8	14
UOP's second quarter operating loss . . . . .	July	14	15
Venture-capital activities: Chemical companies are finding that investing venture capital in small new firms is a good way to diversify and increase profits . . . . .	July	28	25
West German investment is slowing down . . . . .	N Aug	11	31
West Germany: Up goes mark, down go German profits - report (charts) . . . . .	Sept	22	33
Whittaker's nine months sales and earnings . . . . .	Sept	8	16
A year full of surprises - Viewpoint . . . . .	Dec	22	5
Yugoslavia makes pitch for Yankee dollars (map) . . . . .	Nov	17	35
Finishes - Superfinishes: thermosetting coatings bid for furniture market . . . . .	Dec	8	31
Finishing - Paint remover sales take off: new aerosol packaging and a growing outlet in furniture refinishing boost market . . . . .	Oct	20	65
Finland - Petrochemical plunge: oil refiner Neste spearheads push into olefins and derivatives (table) . . . . .	Aug	4	17
Fire Retardants see Flame Retardants			
Fireproofing - Sprayed fireproofing coatings for steel in pursuit of market held by asbestos fiber, new coating from TSI Inc., Thermo-Lag . . . . .	Aug	11	19
Fires			
Hercules' two warehouses destroyed by fire near South River, N.J. . . . .	R July	7	15
Oxirane's Bayport, Tex., plant fire and explosion: cause of the blast not yet revealed . . . . .	N July	7	33

Plant now onstream N Sept 1-33 . . . . .	R Sept	22	24
Petro-Tex's purification system in the main butadiene unit at its Houston plant damaged by fire and explosion . . . . .	Sept	22	59
Fires see also Explosions			
Fish			
Acadia Fisheries, only supplier for a FPC plant at Canso, Nova Scotia, goes bankrupt . . . . .	Sept	15	17
FPC: Nova Scotia initiates bankruptcy proceedings against Cardinal Protein . . . . .	N Nov	3	23
Flame Retardants			
Commerce Dept. rules wigs and hairpieces fall under the jurisdiction of the Federal Flammable Fabrics Act . . . . .	Sept	22	23
Flammability standards for children's sleepwear will require labeling that warns users about deleterious effects of nonphosphate detergents on flame retardancy N July . . . . .	N Aug	4	28
28-21 . . . . .	N Aug	4	28
Four chemical formulations can be pressure-impregnated into wood shingles to impart long-term fire retardance . . . . .	Aug	4	22
Monsanto process for making cellulosic materials fire retardant . . . . .	N Aug	25	47
Sprayed fireproofing coatings for steel in pursuit of market held by asbestos fiber, new coating from TSI Inc., Thermo-Lag . . . . .	Aug	11	19
Fleming, Richard - Air Products group v-p for chemicals: After two days on the job, he seemed like an old hand . . . . .	Sept	22	90
Flocculants - Japanese plan to double capacity . . . . .	R July	28	15
Floors			
Artificial turf draws criticism from professional athletes, Monsanto says demands will not affect sales of its Astro-Turf . . . . .	Oct	13	24
Irradiation turns acrylic-oak combination into durable flooring . . . . .	July	14	37
Fluorocarbons			
Electrochemical fluorination process to make fluorocarbons offered by Phillips Petroleum . . . . .	N Sept	1	43
Penwalt's plant at Thorofare, N.J., brings total U.S. capacity for fluorinated hydrocarbons to nearly 1 billion lbs./year . . . . .	July	14	15
Foams			
Propylene seaweed prevents shore erosion, may provide breeding areas for marine life . . . . .	July	14	37
Shell Pipe Line will evaluate on-site production, shredding and spreading of urethane foam to soak up oil spills . . . . .	N Sept	8	40
Stuffer sells its urethane foam operations to United Foam . . . . .	Aug	18	25
Syntactic carbon foam . . . . .	July	21	24
Urethane foam polyols prices . . . . .	N Dec	15	27
Food			
Deserts: Gelling agents find a new market in frozen deserts in France . . . . .	Aug	18	43
FDA plans to restrict use of Red No. 2 coloring agent . . . . .	Oct	20	23
FDA states that the use of recycled paper for food packaging has resulted in high polychlorinated biphenyls in the foods: launches a nationwide survey . . . . .	N Oct	27	25
Snack-food business a boom for starches . . . . .	Nov	17	53
Food Additives			
FDA may probe use of nitrates and nitrates in food additives . . . . .	Oct	27	17
Sweden's NIPH stops use of diethylpyrocarbonate as drink preservative . . . . .	Sept	1	43
Food & Drug Administration			
Container rules set . . . . .	Sept	15	16
Detergent labeling, regulations etc. see under Detergents			
Drug labeling, regulations etc. see under Drugs			
Lead in paint faces bans N Nov 3-14, Nov 17-22 . . . . .	Dec	15	41
PCB under scrutiny Oct 13-21 . . . . .	N Oct	27	25
Study of nitrates and nitrites added to meats and other food products . . . . .	Oct	27	17
Shortage of manpower means approval delays for chemicals . . . . .	Nov	17	61
- letter . . . . .	Dec	15	5
FDA regulations, standards etc. see also under specific products			
Formaldehyde			
British Industrial Plastics' plant at Oldbury, near Liverpool . . . . .	R July	18	15
Nores plants; Finns take petrochemical plunge (table) . . . . .	Aug	4	17
France			
Chemical industry production increased 5.4% in the first half of '71 . . . . .	N Sept	15	21
Cie. Francaise des Petroles and ELF: Erap link investment and production efforts; four subsidiaries formed . . . . .	R Dec	15	33

European plant sites report (map, chart, table) . . . . .	Aug	25	33
Franco-Soviet oil refinery in France and French aid in building cellulose plant in Russia possible . . . . .	N Aug	18	31
Gelling agents find a new market in frozen deserts . . . . .	Aug	18	43
Government's 5-year plan ('71-'75) calls for industry consolidation, reorganization, heavy investment to expand domestic and foreign markets in chemical products . . . . .	Nov	24	45
How French CPI will build capacity to meet government's 5-year goal (table) . . . . .	Nov	24	48
Japanese-French joint venture urethane resins plant is slated for northern France . . . . .	N July	14	40
Methylchlorosilanes plant at Roussillon complex . . . . .	R Dec	1	21
Natural gas from Russia . . . . .	N Aug	18	31
Swedish and French gas leaders team up . . . . .	Sept	15	23
Freight Rates			
Plant sites '71 report - transportation costs, J. M. Winton (charts & tables) . . . . .	Oct	13	39
Rail freight-rate surcharge opposed by chemical shippers . . . . .	Dec	22	15
Rail rates up again? . . . . .	Aug	11	12
U.S. government may adopt a hands-off attitude toward freight and passenger rates . . . . .	R Sept	22	24
Fuel			
Illinois chemical firms may soon be eyeing natural gas substitutes . . . . .	N Sept	1	43
Nuclear research reactor fuel provides several times the useful life span of previous fuels . . . . .	N July	7	27
Fuel Cells - Metal Associates withdrawing as supplier of metal anodes for chlor-alkali production . . . . .	N Dec	15	39
Near-term future not bright . . . . .	N Dec	22	31
Fumigants - Carbon tetrachloride-based liquid grain fumigant prices . . . . .	N July	21	41
Fungicides			
Corn blight helped fungicide makers, but not as much as expected . . . . .	Sept	8	37
Sales helped by corn blight infestations . . . . .	N Aug	11	18
Furniture			
Paint remover sales take off: new aerosol packaging and a growing outlet in furniture refinishing boost market . . . . .	Oct	20	65
Superfinishes: thermosetting coatings bid for furniture market . . . . .	Dec	8	31
Fusion - Tokamak not perfectly circular and it is this imperfection that results in heat loss, says Gulf scientists . . . . .	N July	14	23
G			
Gas			
Algeria's Sonatrach awards a construction contract to Pritchard-Rhodes for gas liquefaction plant at Skikda . . . . .	R July	7	45
American Lurgi process, trademarked Gasyntan, for the catalytic steam reforming of naphthas and lighter materials to produce 950-1,000-Btu, pipeline gas . . . . .	N July	7	27
Amoco Canada's gas dehydration plant . . . . .	R Sept	29	24
French and Swedish gas leaders team up . . . . .	Sept	15	23
Institut Francais du Petrole process to recover Claus unit tail gas licensed to five U.S. firms . . . . .	N Aug	18	88
Japan Gasoline negotiating deals with U.S. firms for its methane-rich gas process to make SNG from naphtha . . . . .	N Dec	8	25
NGL demand puts squeeze on chemical plants based on ethane and propane . . . . .	Oct	6	10
Pipeline-gas-from-natural-liquids plants N Oct 20-69 . . . . .	N Oct	27	37
U.S. military transport removes the last quantity (825 tons) of mustard and nerve gas from Okinawa . . . . .	R Sept	22	24
Gas see also Natural Gas and specific Gas Oil - Ethylene plants of the future: new accent on heavier feedstocks . . . . .	Sept	15	31
Gasification			
Bituminous Coal Research design plans for pilot plant in Homer City, Pa.; world's first unit for converting coal into gas is IGT plant due soon . . . . .	Dec	1	17
Commercial coal gasification plant may be taking shape in the heart of Texas natural gas country . . . . .	N Aug	18	87
El Paso plans coal gasification plant in New Mexico . . . . .	N Aug	25	47
FMC will form a consortium to build a coal gasification plant . . . . .	N Sept	8	40
Gas companies plan to produce methane from coal, naphtha . . . . .	Sept	1	9
Lummus unit at Bruceton, Pa., to make pipeline gas using USBM's Synthene process . . . . .	N July	21	49
Lurgi plant to make gas equivalent to natural gas studied by new group . . . . .	N Nov	3	51

Natural gas industry and Dept. of Interior will launch joint research program to develop commercial coal gasification program	Aug	11	11
Pipeline-gas-from-natural-liquids plants N Oct 20-69	N Oct	27	37
Shortage of natural gas spurs coal gasification development	Oct	27	33
Tecan Gasification plans project to gasify 110,000 bbls/day of naphtha	N Oct	20	69

**Gasoline**

Availability of aromatics at refineries will depend on octane ratings in lead-free gasolines the '75 autos can use	N Aug	25	47
Lead additives: EPA to publish standards expected to require elimination of lead additives in gasoline	Dec	22	16
Lead-free gas: new study says EPA's costs for lead-free gas are too low, slide in lead alkyl sales not as fast as feared (table)	Oct	13	59
N.Y.C. new air quality code bans use of leaded fuels after Jan. '74	N July	21	49
Oil's building boom: What gasoline refining changes mean for chemical plants (chart)	Sept	1	6
Senate hearings debate whether additives make any difference in gasoline sold at the retail pump	N July	28	10
Gels - Gelling agents find a new market in frozen desserts in France	Aug	18	43
Generators - Grace's Davison Chemical Div. offers new, compact air-cooled ozone generators in modular arrangement	N Oct	6	48

**Germany**

BASF and Lurgi cancel contracts	N Dec	8	25
BASF increases glycol capacity	R Aug	4	19
Bayer merging its six wholly owned subsidiaries to give it a stronger marketing and financial clout	Dec	8	18
Benzene unit addition at Deutsche Marathon's Burghausen refinery	R July	28	15
Butadiene plant addition	R Sept	1	16
Huels' capital spending will be cut 50% in the next two years	R Dec	1	21
Labor: Chemical unions in Northrhine and Hesse have accepted a 7.8% wage hike retroactive to June 1	N July	14	40
Methionine plant planned by Degussa	R Aug	4	19
Recession fears haunting chemical makers; chemical giants are planning to reduce investment in '72	N Nov	3	43
Science Ministry sets up program to develop protein-from-oil process	N Dec	1	43
Veba-Chemie plans aromatics facilities at refinery planned for Rheinburg-Orsay	R July	7	45
West German bill would discourage borrowing abroad	N Aug	11	31
West German chemical companies to expand overseas as they react to mark revaluation	N Oct	13	31
West German investment is slowing down	N Aug	11	31
West German legislation would mean pollution control cost will be \$2.2 billion in next five years	N Aug	4	20
West German metalworkers strike	N Dec	8	25
Metalworkers strike settled but auto sales are still sluggish	N Dec	22	19
West Germany: Entertainment expenses of chemical companies will no longer be tax-deductible if a government tax reform bill is passed by the legislature	N Nov	10	27
West Germany: European plant sites report (map, chart, table)	Aug	25	26
West Germany: Up goes mark, down go German profits - report (charts)	Sept	22	33

**Glass**

Detroit's program to recycle glass containers may be stymied	Aug	11	10
Dumping hurts says the Tariff Comm.	Nov	10	19
PPG develops double-glazed window that "warms itself, muffles unwanted sound, insulates against cold and heat, screens out solar glare"	R Sept	29	24

**Glass Fibers**

Glass-fiber-reinforced light poles tested	N Aug	4	34
PPG expanding Lexington, N.C., plant	R July	28	18
Polyester-resin reinforced "paper" houses approved by FHA	Aug	11	11
Glycerol - Russian plant uses Sofina design and Solvay technology	R Aug	4	19

**Glycol**

BASF increases capacity	R Aug	4	19
Dow's prices of propylene oxide, propylene glycol and dipropylene glycol	N Aug	18	73
Northern Petrochemical's plant at Joliet, Ill., shut by an explosion in heat exchanger	N Nov	24	23
Runway de-icers get set for fast take-off	Nov	24	29
Worldwide glycol glut may not ease until '73 (chart)	July	21	37
Goggin, William C. - Dow Corning's president and chairman of the board: Early riser keeps silicone maker in No. 1 position	Oct	20	86

**Gold**

Production down	N Dec	8	29
West Coast Commodity Exchange begins trading in gold coin	N July	21	41
Golf Equipment - Plastics: new golf equipment gets big boost from pros in U.S.	July	21	45
Open	July	21	45
Gottschalk, Robert - Candidate for U.S. Patent Commissioner	N Sept	15	13
Graphite - Golf club shaft of graphite yarn	July	21	46

**Great Britain**

ABS and carbonoxylated styrene-butadiene plant near Southampton	R July	28	15
British Steel, state-owned company, ordered to shed activities the Conservative government considers peripheral	N July	7	39
Chemical industry faces problems of harmonization of British laws with those of the Common Market	N Nov	24	43
Chemical Workers' Union merger with Transport and General Workers Union could result in stronger chemical union	N July	21	35
Common Market: producers see long-range benefits in Common Market entry	Oct	27	45
Common Market: timetable for British entry	N Nov	3	43
Gourtauld's chairman, Lord Kerton, says Britain will have another devaluation within 12 months	July	21	35
Crown jewels tarnished	Oct	20	62
European plant sites report (map, chart, table)	Aug	25	24
Exports and imports in first-half '71	N Aug	18	31
Fisons and ICI want antidumping duties imposed on fertilizer imports	N Nov	3	23
ICI dropping some of its domestic operations as part of cost-cutting program	Dec	22	21
ICI, Fisons, Shellstar agree to share fertilizer information	N Nov	10	27
ICI plans to acquire four texturizing companies	N Sept	22	51
John Bull bullish on chemicals	N Nov	24	51
Labor continues to come up with ever bigger demands	N Oct	27	43
Metric system advances	N Oct	20	29
Natural gas liquefaction plant at Canvey Island, Essex	R Dec	8	28
Phosphoric acid unit for Albright & Wilson's Whitehaven works	R Sept	1	16
Polyester fiber complex at Mogilev; no harassment or reprisals for the U.K.'s ouster of Soviet spies has been reported	N Oct	6	19
Producers are holding back on capital spending	R July	7	39
Rio Tinto Zinc's potash project in Yorkshire shelved	N Sept	22	59
Shell cuts its U.K. operations	Dec	22	21
Study shows why some R&D projects never get out of the lab (table)	Oct	6	45
Survey discloses a revival of business optimism in the U.K.	N Oct	20	31
U.K. jogs economy	July	28	17
U.K. outlook gloomy	Dec	8	27
U.K. spending slump	Sept	15	24
U.S. and U.K. take the first step toward exchange of environmental information	N July	28	40
Will Heath's pump-priming spark British recovery? - report (tables)	Oct	6	37
Greece - Polyester fiber plant	N Aug	25	20
Gum - Naval stores prices	N July	7	34

**H**

Hairpieces - Commerce Dept. rules wigs and hairpieces fall under the jurisdiction of the Federal Flammable Fabrics Act	Sept	22	23
Hall, John - Ashland Chemical's president: Blends keen business sense, 'down home' air	Sept	8	48

**Health**

Carbon particles and sulfur dioxide may lower man's ability to fight infection says Penn. State's Zarkower	N Dec	8	43
H-E-W's list of toxic substances for use in the enforcement of the new Occupational Safety & Health Act	Aug	18	27
Job-safety legislation see Law			
"New Orleans" asthma study finds natural, rather than industrial or man-made pollutants are the probable cause	N Sept	1	43
"Unity on asbestos" - Clearing the air - letter	Sept	29	15
Heat Transfer - Heat-transfer competition boils - letter	July	28	6
Heptachlor - EPA probing pesticides	Oct	27	17

**Herbicides**

Cyanamid and Amchem agree to stop selling the herbicide amitrole	R July	7	15
Dow's charges of foot-dragging in the handling of cancellation proceedings for certain registrations expected to be answered formally by EPA	N Oct	20	27

Patent Office reverses a '67 decision that awarded priority to Monsanto on use of 3,4-dichloropropionanilide as a selective postemergence herbicide and awarded priority to Rohm & Haas	R July	28	18
2,4,5-T: Dr. Epstein criticizes report recommending restrictions be lifted	N July	21	17
2,4,5-T: EPA's Ruckelshaus will hold off decision on whether to uphold the cancellation notice on food crop use	N Aug	11	14

**Hexachlorophene**

FDA's warnings against use crimp sales	Dec	15	22
Nader wants FDA to tighten control on soaps and deodorants containing HCP, charging that chemical causes brain damage in animals	R Dec	8	19
Hochwalt, Carroll - Receives '71 Chemical Industry Medal	Oct	13	23

**Hormones**

DES: hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested N Oct 20-27	N Nov	24	14
Gets another going over at new hearings	Dec	22	17
Searle unveils new class of hormones, 11-beta-methyl-19-nortestosterone	N Aug	4	33
Zoecon synthesizes two new juvenile hormone analogs	Dec	8	43
Horticulture - Foliage and soil are new "instruments" for measuring pollution	Oct	20	61
Hungary - Polyethylene plant	R Nov	24	21

**Hydrocarbons**

Calgon develops a molecular-screening activated carbon for separating hydrocarbons and other compounds	N Aug	18	87
Casco uncovers four new bacterial strains that might accelerate biodegradation of hydrocarbon wastes	N Aug	25	47
Pennwalt's fluorocarbons plant at Thorofare, N.J., brings total U.S. capacity for fluorinated hydrocarbons to nearly 1 billion lbs./year	July	14	15
Production in first eight months of '71: U.S. Tariff Comm. report	N Oct	20	55
Puerto Rico-based Corco will buy feed stocks from Algeria's Soc. Nationale Sonatrach	N Dec	22	9
Tranco planning plant to convert liquid hydrocarbons into synthetic natural gas (SNG)	Oct	27	17

**Hydrofluoric Acid**

Du Pont plans Mexican joint venture near Matamoros	R Aug	4	12
Mexican plants are latest twist in bid to supply HF markets (chart)	July	14	34

**Hydrogen**

Dow reveals pricing system for corrosion inhibitor system for ammonia and hydrogen plants using monoethanolamine stripping	N Oct	13	71
Petrofina Canada's plant at Pointe Aux Trembles	R Sept	15	24
UC's Linde Div. will build liquid hydrogen plant at Ashtabula, O.	R Sept	8	16
Hydrogen Chloride - Taiwan Vinyl Chloride Corp. unit starts up	R July	21	33

**Hydrogen Peroxide**

Finnish Peroxides plant; Finns take petrochemical plunge (table)	Aug	4	17
Philippine plant	R Dec	1	21

**I****IIT Research Institute**

Plastic recycling study	July	28	26
Surface-active agents developed show promise of eliminating the need for phosphate in home laundry detergents	N Dec	1	43

**Imports**

Aluminum in a slump (charts)	Nov	17	45
ASP see Tariffs			
American Standard's Eberle: Nixon choice to head U.S. trade negotiating team	Oct	6	13
Balance-of-trade			
Chemicals key in trade balance (charts)	Aug	4	26
Dock strikes have darkened U.S. balance-of-trade picture	Dec	8	20
Government charts point up R&D's role in trade	July	7	28
- letter	Aug	4	4
Imports up, exports dip	Sept	8	16
Nixon given emergency authority to impose broad new curbs on imports, including a hike in the surcharge to 15%	Nov	17	24
Plus for chemicals - Commerce Dept. data	Nov	10	18
Trade and the balance of payments may become lively topics in Congress in September	N Aug	11	5

U.S. chemical trade balance is shrinking swiftly	N	July	7	10
Benzenoid: SOCOMA's Lang says Nixon's economic program will not lead to any long-term improvement in the deteriorating U.S. trade position in benzenoid chemicals	Sept	15	18	
Benzenoid chemical imports (chart)	Sept	1	11	
Benzenoid intermediates from Japan increased 50% last year	N	Sept	1	5
Canada's CIL could lose as much as 4% in sales as a result of the 10% U.S. import surcharge	N	Sept	29	27
Chemical imports during the first five months of '71	N	July	28	21
Commerce Sec. Stans says U.S. industry needs help to make it more competitive at home and abroad	N	Aug	4	6
Dumping: Glass dumping hurts says Tariff Comm.	Nov	10	19	
Dumping: importers are upset by U.S. enforcement of dumping regulations	Aug	11	11	
Dumping: Japanese pipe being sold in violation of antidumping law charge manufacturers	Nov	10	19	
Dumping: Polymer Corp. asks for finding that imports of SBR by Goodyear of Canada be considered dumping of the material by its Japanese producer	N	Sept	1	33
Dumping: "25% rule" changes by Treasury Dept. may more easily prove "unfair" dumping	N	Aug	4	15
Dumping: U.K.'s Fisons and ICI want antidumping duties imposed on fertilizer imports	N	Nov	3	23
Dumping: U.S. Treasury Dept. crackdown	Nov	3	19	
East-West trade				
Belgian producers plan to visit USSR in an effort to expand trade and technical cooperation	N	Nov	24	43
Boost in Soviet trade with the West is expected to result from the visits by top Soviet leaders to Algeria, Canada and France	N	Nov	3	43
Canada's Polymer Corp. chairman Rowzee says Communist China could be a market for Western chemical technology, particularly for production of man-made fibers	July	28	29	
China trade door open	Aug	18	29	
China wants to boost trade with Canada, but would eschew dealing with Canadian subsidiaries of U.S. companies	N	July	14	40
Nixon's authorization of Export-Import Bank credits for sale of U.S. goods to Rumania viewed as preliminary move to granting the same to the Russians	N	Dec	15	35
Nixon's planned China visit will affect U.S.-Soviet relations	July	28	18	
Russia seeks joint ventures with West	Oct	20	29	
Russians set to trade?	Nov	17	38	
Russians sign technical cooperation agreements with Hoechst and Henkel	N	Nov	24	43
Tonneco deal would swap American-built ships and grain farm equipment for Russian natural gas and oil	N	Dec	8	14
U.S. delegation representing chemical engineering and equipment firms off to Russia and Rumania	N	Nov	3	43
European Common Market calls for early removal of the U.S. 10% import surtax	N	Sept	1	13
Great Britain: John Bull bullish on chemicals	Nov	24	51	
Great Britain's exports and imports in first-half '71	N	Aug	18	31
Hong Kong's new plan for limiting exports of man-made and woolen textiles to the U.S. is "totally unacceptable" to Washington	N	Sept	22	17
Imports are no fun - letter	July	7	5	
Japan is easing import restrictions	July	28	29	
Japan signs new five-year trade pact with USSR	N	Oct	27	43
Japan to try to boost trade with mainland China	N	Oct	27	43
Japan told: 10% imports surtax aims to erase U.S. trade deficit	Sept	29	22	
Japan's edge in chemical trade: Fair or foul? (charts)	Aug	18	23	
Japanese stepping up trade with Communist China	N	Nov	17	31
Japanese textiles				
Curbs on U.S. imports of man-made fiber products stir protest in Japan, but are favored by most U.S. fiber and fabric makers (chart)	Oct	27	15	
How much will textile pact hurt?	Nov	10	87	
Japan estimates it will lose about \$170 million worth of fiber exports as result of the proposed textile-fiber export control plan	N	Oct	20	31
Nixon Administration's threat to impose quotas unilaterally may result in export curbs	N	Oct	13	17
Textile tiff worsens	Oct	6	14	
Latin American executives seek exemption from Nixon's import surcharge	N	Sept	15	21
LNG imports blocked	N	July	7	15

LNG imports see also <b>Natural Gas</b>				
Louisiana's Breaux says the surcharge and currency revaluations may especially encourage new projects in the U.S.	Oct	6	14	
MCA's midyear meeting: the international monetary and trade crises and the impact on chemical companies' foreign and domestic profits	N	Nov	24	13
McCracken spells out figures behind Administration's policy shift	Sept	29	22	
NFTC survey reports U.S. overseas production has not cut U.S. exports	Nov	24	17	
Nixon's "game plan" see <b>Financial</b>				
Oil: Interagency Oil Policy Committee urged to cut U.S. dependency on foreign oil sources	N	Aug	4	16
Oil quotas				
Feedstock import plan expected to boost U.S. petrochemical output (chart)	Aug	25	12	
Limitations on residual fuel oil imports draw fire in Congress	Sept	15	19	
New oil imports program is far from ironed out; inflighting over details of planned liberalization of controls of imports of petrochemical feedstocks	N	Sept	8	9
OEP program: petrochemical companies apparently will have virtually unlimited access to foreign feedstocks - probably by '74	N	Aug	18	17
Oil companies pitch for quota changes with more naphtha	Oct	20	20	
OIA issues new adjusted quotas to refineries, petrochemical plants	July	21	14	
OPC plan may allow petrochemical industry to get more access to foreign feedstocks	N	Dec	8	14
Petrochemical companies expected to approve Interior's new proposals to increase access to relatively inexpensive foreign feedstocks	Dec	15	21	
Presidential aide Flanigan recommends liberalization of quotas for the petrochemical industry	N	Aug	11	5
Puerto Rico Olefins requests special quota for its Puerto Rican Plant	N	July	28	9
Sen. Harris to introduce a resolution that calls for scrapping the oil import quota system and switching to tariff controls	Nov	24	17	
Presidential Commission on International Trade and Investment policy report will add to monetary controversy	N	Aug	18	18
Study recommends repeal of ASP valuation system	Sept	22	24	
Spanish imports decrease	Nov	17	5	
Tariff Commission taking a hard line on adjustment assistance	Sept	22	17	
TV imports: unions seek "escape clause" relief under provisions of the Trade Expansion Act of '62	N	Oct	13	17
10% surcharge: Aceto Chemical reports 10-20% of the products it handles are now unprofitable due to 10% surcharge	N	Oct	27	13
10% surcharge: shippers carry burden	Sept	8	12	
10% surcharge causing foreign competitors to step up production at their U.S. facilities; look for some of them to begin setting up licensing agreements with U.S. agents	N	Oct	27	13
10% surcharge won't be temporary at all	N	Sept	29	17
Textiles				
Far East trade issue remains unresolved	N	July	7	10
Imports soar (chart)	Sept	22	22	
New quotas on imports of man-made and woolen textiles from the four big Asian suppliers may be added to the Nixon game plan	N	Sept	29	17
Textiles in the red: Commerce Dept. 10-month import-export figures	Dec	22	14	
U.S. Tariff Commission decisions on requests for adjustment assistance show no pattern as yet	N	Nov	17	17
Trade bill see <b>Tariffs</b>				
Trade negotiating authority for the President may be broadened	Dec	15	23	
U.S. chemical trade in August - Commerce Dept. figures	Oct	6	12	
<b>Incineration</b>				
Centrifuges designed for dewatering chemical plant wastes can cut the costs of secondary treatment and incineration	Dec	15	37	
USMB pilot study of an incinerator residue recycling process finds there's money to be made in "mining" garbage dumps	N	July	28	39
<b>India</b>				
Chlor-alkali plant at Karwar	Sept	15	24	
Fertilizer push	July	21	29	
Gwalior Rayon Silk building caustic soda plant at Nagda	R	Sept	22	48
Maleic anhydride plant	R	Oct	20	30
Potassium chloride plant	R	Dec	8	28
Six new chemical projects, five involving U.S. companies, are under construction or planned	Sept	15	23	

Indonesia - Cryogenic nitrogen plant at Puljda	R	Sept	15	24
Industrial Gas Cleaning Institute - Sales of industrial air pollution control equipment climb	July	21	55	
<b>Industry Developments</b>				
Acquisitions and mergers: for newsletter and roundup items see under individual company names in <b>Company Index</b>				
Area developments see <b>Area Development</b>				
Burmah Oil still looking for partner after Conoco talks fail	July	7	13	
Chemical companies in the oil and gas business (table)	July	7	12	
Conglomerate mergers: Congressional report has antitrust focus	Sept	15	18	
Du Pont realigns product lines: Industrial Chemicals Dept., Polymer Intermediates Dept. and Photo Products Dept. will be set up	Nov	24	20	
European plant sites report (maps, charts, table)	Aug	25	23	
Ireland: Favorable investment incentives and imminent Common Market entry lend impetus to chemical industry buildup (map)	Sept	8	22	
Italian government plan seeks to revitalize chemical industry	Dec	15	29	
Mergers: International Mergers Service A.G. formed	N	Nov	24	13
Mergers: Merger rate slowing	Oct	13	24	
Mergers: The merger scene has been relatively quiet this year	N	July	7	9
Mergers and acquisitions: for newsletter and roundup items see under individual company names in <b>Company Index</b>				
Mergers & acquisitions				
Austrian merger of the petrochemical divisions of OMV and OSW set	Sept	29	32	
Chevron Chemical purchases Vectra Corp.	July	14	15	
Cooper Labs to acquire two ethical-pharmaceutical manufacturers: Smith, Miller & Patch and Establecimientos Laurier of Mexico	Sept	1	10	
Diamond Crystal Salt's merger into Cleveland-Cliffs Iron called off	N	Sept	8	25
El Paso merger with Pacific Northwest Pipe Line: bribery charges stymie merger okay	Dec	8	17	
FMC and Foster Grant contemplate merger R Oct 6-15	Oct	13	28	
Goodyear will sell its shares of Rubber-fabrik Vredstein stock to Goodrich	Oct	27	19	
Grace offers up to \$17 million for Mr. Gasket, auto-parts maker	July	14	14	
Kaweckel Beryco and Molybdenum Corp. of America map merger	Oct	6	12	
Kendall considering merger proposals from Tectron and Colgate-Palmolive	Nov	3	17	
Turns down two merger proposals, but others are likely	Dec	1	18	
L'Air Liquide acquires a 50% interest in AGA Gas, Deutsche L'Air Liquide Edelgas will, in turn, become a subsidiary of AGA Gas	Sept	15	23	
National Steel-Granite City Steel merger: Justice may ease up on antitrust enforcement	N	July	21	9
Occidental Petroleum asks FTC approval to spin off its diammonium phosphate business to Baker Chemical; Baker would buy stock interest in Hooker Farm Chemicals of Taft, Inc.	Nov	24	17	
Riegel shuns Southwest Forest, merges with Federal Paper Board	Aug	25	14	
Selas using Wiltshire Oil of Texas and 8 other companies and individuals for allegedly conspiring to take control of it "by fraudulent acts and practices"	Sept	29	23	
Slick officers fill Filtril posts. Is merger in the wind?	Dec	8	19	
Standard Oil (Indiana) may acquire control of Midwest Oil and merge it with Amoco	R	Aug	4	12
Midwest directors turn thumbs down on merger	Aug	25	9	
Midwest stockholders suing Standard for using "misleading scheme" to take control of Midwest	R	Oct	6	15
Standard plans to offer stock ex-Stauffer's urethane foam operations sold to United Foam	Aug	18	25	
Paper firms plan mergers, expansions; high costs crimp profits (table)	July	14	15	
A year full of surprises - Viewpoint	Dec	22	5	
Infrared - Scanning technique for detecting impending equipment failures by use of temperature profiles	Nov	17	66	
<b>Inland Waterways</b>				
Dow Chemical wants the St. Lawrence Seaway season extended beyond the present mid-December closing	N	Nov	24	14
St. Lawrence Seaway overcrowding sparks a dispute over winter closing date	Dec	15	20	
Tennessee-Tombigbee waterway: EDF suits to block construction on environmental grounds	N	July	21	9



**Insecticides**

DDT see <b>DDT</b>			
Dow's Zectran shown to be "20 to 25 times as effective as DDT"	Aug	18	27
EPA will release all scientific advisory reports filed under the federal Insecticide, Fungicide and Rodenticide Act as soon as they are received	N	Aug	4 15
Florida battles giant African snail infestation with metaldehyde	Nov	24	41
Growth regulators from Zeecon: 2 new juvenile hormone analogs synthesized	N	Dec	8 43
Malaria-carrying mosquitoes build up resistance to insecticides	Aug	4	36
<b>Pesticides</b>			
Control bill: pending legislation would impose civil penalties	July	21	14
Bill requires imported food commodities to meet U.S. standards	N	Sept	22 31
Bill halted	Sept	29	22
Bill passes the House	Nov	17	22
EPA probing chlordane and heptachlor	Oct	27	17
Israel's industry banks heavily on know-how and export sales	July	14	43
Pesticide R&D - letter	July	28	5
Pesticides blessed in Nader's report	July	28	15
Producers would bear the burden of proving their products safe under a bill proposed by Rep. Dow	N	Oct	20 27
Synthetic organic pesticide output and sales	N	Sept	29 37
Univ. of Calif. scientists, starting investigation of water in the San Joaquin Valley, will study the effect of pesticides	N	Aug	18 88
Texas' insecticide-spraying program to kill off culex mosquito	N	July	28 39
Toxophene waste control key to Hercules' naval stores cleanup	Aug	25	19
Institute of Gas Technology - Bituminous Coal Research design plans for pilot plant in Homer City, Pa.: world's first unit for converting coal into gas is IGT pilot plant due soon	Dec	1	17

**Instruments**

Electro-Molecular-Propulsion, high voltage chemical process from Haber	N	Aug	4 34
High-energy magnetic tapes sound off	July	7	36
Solid-state panel instruments, called Quick-Scan 1300, debut	N	Nov	17 65
Toy makers' taking advantage of the growing interest in ecology, offer inexpensive monitoring devices	Dec	22	34
Intermediates - Cyclic intermediates: The man in the middle is doing fine - report, Donald P. Burke (charts & tables)	July	28	32
International Aerosol Congress (Eighth): Aerosol business grows faster in Europe than in North America	Oct	20	66
Intravenous Solutions - Abbott Labs' North Chicago plant back in production	R	Aug	4 12

**Inventories**

Chemicals and allied products decline - Commerce Dept. report (chart)	Sept	15	17
Sulfur inventories N Aug 25-37, N Sept 22-59	N	Oct	27 29
Iowa State University - Researchers find green plants might make sophisticated pollution detectors	N	Aug	25 47
Foliage and soil are new "instruments" for measuring pollution	Oct	20	61

**Iran**

Aliaf will double output of nylon yarn plant	R	Aug	4 19
Joint exploration venture off the shore of Iran	R	Aug	11 10
Mitsui will build down-stream petrochemical plants in a joint venture with NIPC	R	Oct	27 19
North African oil crisis may be brewing	N	Nov	10 27
Petrochemical project planned by Mitsui	N	Aug	4 20

**Ireland**

Du Pont acrylic fiber plant at Maydown expansion	R	July	14 16
Favorable investment incentives and imminent Common Market entry lend impetus to chemical industry buildup (map)	Sept	8	22
Mitsubishi interested in a refinery-petrochemical complex in Ireland	N	Nov	10 27
Mitsui considering electrolytic manganese dioxide plant at Cork	N	Nov	10 27
Monsanto Textiles Ltd. delays expansion of acrylic fibers plant	R	Aug	4 19
Northern Ireland chemical and fiber companies avoiding northern strife	Sept	8	24

**Iron**

Cleveland-Cliffs will boost Tilden Creek, Mich. iron ore pellet output	R	Aug	25 16
Petrofina of Canada will temporarily close metal powder operation at Pointe-aux-Trembles, Quebec	N	Oct	13 57

Iron Carbonyl - GAF ponders product shifts at Linden, N.J.	Oct	20	22
Isocyanates - Spanish plant	R	Oct	20 30
Isomerization - Engelhard has worldwide rights to BP process	N	Aug	11 40
- letter	Dec	15	5
Isoprene - Vulcan-Cincinnati will offer Marathi's isoprene process	N	Aug	11 40
Isopropanol - Nova Scotia initiates bankruptcy proceedings against Cardinal Protein	N	Nov	3 23
<b>Israel</b>			
Ammonia unit starts trial run	R	Nov	3 17
Chemical exports	R	Oct	27 19
Diagnostic test for cancer evaluation	N	July	28 40
Nylon filament plant	R	Nov	24 21
Patents: legal steps may be taken to compel foreign chemical companies to issue licenses for their patents registered in Israel	Nov	3	48
Pesticides industry banks heavily on know-how and export sales	July	14	43
PVC plant addition	R	Nov	24 21
Sulfuric acid plant	R	Oct	20 30
Urea plant starts trial run	R	Nov	3 17

**Italy**

ANIC's methyl methacrylate butadiene-styrene plant at Ravenna will double capacity next year; a third plant is planned for '73	R	Sept	22 48
Chemical plan: government charts big investment program to bolster chemical industry	Dec	15	29
European plant sites report (map, chart, table)	Aug	25	34
Montedison's acrylonitrile plant	R	July	28 15
Montedison's Celis pinpoints his problems	July	21	29
Normal paraffins plant in Sicily	R	Nov	10 87
Petrochemical complex at Calabria	R	July	7 45
Pirelli trying to trim its labor force	N	Oct	6 19
Protein-from-hydrocarbon: Italtiproteine studying feasibility of building plant in Sardinia	N	Sept	8 19
SR's petrochemical complex in Lamezia, Calabria	N	Sept	1 13
Valerio, G. charged with misappropriating Montedison funds	R	Dec	15 32

**Japan**

ABS markets (chart)	Aug	25	39
Carbon fiber unit at Toray's Shiga works completed	R	Sept	1 16
Chemical export prices will go up	N	Sept	1 5
Chemical industry is now outstripping U.S. counterpart - and U.S. producers are crying "foul" (charts)	Aug	18	23
Chemical process companies will sharply curb capital investments	Dec	8	28
CPI will decrease capital spending in '72	Oct	20	31
Chemical reprocessing of nuclear fuel: additional plant to supplement government unit at Tokai planned	N	Dec	15 35
Chinese-Japanese fertilizer agreement	N	Sept	1 13
Desulfurization catalysts plant at Niihama	R	July	28 15
Ebara Mfg's sulfuric acid plant on Hokkaido island	R	July	14 16
Ethylene: startup of three plants early next year	R	Oct	27 19
Ethylene plant at Tokuyama	R	Sept	1 16
Ethylene production will be using locally developed know-how in several years	Dec	1	21
First Japanese firm to export fabricated nuclear fuel; agreement with the Pakistani AEC	N	Aug	18 87
Five-year trade pact with USSR signed	N	Oct	27 43
ICI-Teijin joint venture in Mihara to produce ICI's bromoxone weed killer	N	Sept	29 27
Import quotas on 20 products lifted	N	July	28 29
Maleic anhydride plant at Kashima	R	July	28 15
Mitsui Toatsu plans to seek union agreement to make personnel cuts	N	Oct	27 43
Monsanto hopes to crack the Japanese nylon market	N	July	14 40
Negotiations to sell China ammonium chloride: buying and selling, oriental style	N	Aug	25 20
Revaluation of the yen: what it means to U.S. chemical producers	Sept	8	11
Stockpiling of vital resources planned	N	July	21 35
Sumitomo's profits drop; Hasegawa favors revaluation of yen to slow Japan's economic growth	Sept	29	21
Synthetic alcohol plant at Takasago	R	Oct	20 30
Perfumery	R	Aug	4 19
Textile quotas see <b>Imports</b> - Japanese textiles			
Textiles: How much will textile pact hurt?	Nov	10	87
Textiles: Japan estimates it will lose about \$170 million worth of fiber exports as result of the proposed textile fiber export control plan	N	Oct	20 31
Thailand petrochemical project delayed	N	Sept	29 27

Trade overtures to mainland China	N	Nov	17 31
N Oct 27-43	N	Aug	25 44
"Wood" from plastic?			
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**Mercury**

Emission standards for mercury, beryllium and asbestos set by EPA are under review	N Oct	6	48
GAF suspends manufacture of liquid chlorine and caustic soda at its Linden, N.J., plant because of mercury problems	Oct	6	13
MRI study will attempt to answer how mercury can be transformed by living organisms into methyl mercury	N July	28	40
NPCA meeting: Major formulation changes are in store for the paint industry	N Nov	17	51
Water pollution	N Dec	8	43
Borohydride system for mercury removal	N Dec	8	43
Congressman wants mercury users to share abatement secrets: Georgia-Pacific offers information	July	14	16
Georgia-Pacific's research project aimed at getting mercury out of a chlorine-caustic plant's waste sludge	N July	14	10
Naval Research Lab. scientists say mercury is toxic to algae	Oct	6	48
Messing, Morris - Replaces Thomas Willars as vice-chairman of Occidental Petroleum and chief executive officer of Hooker Chemical	Sept	1	8

He started at bottom - now helps others move up

Metaldehyde - Florida battles giant African snail infestation with metaldehyde	Nov	24	41
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**Metals**

Japan planning stockpiling of vital resources	N July	21	35
Metals producers hope for '72 upturn, invest for long-term growth (chart)	Dec	8	15
Nonferrous metals forecasts	Oct	27	19
Photopolymers broaden markets in electronics, metal parts	Oct	27	39
Precious metals production down	Dec	8	29
Meters - Shell Oil to market portable light meter to measure visible smoke emissions	N Aug	11	39

**Methane**

Gas companies plan to produce methane from coal, naphtha	Sept	1	9
Lummus unit at Bruceton, Pa., to make pipeline gas using USBM's Synthane process	N July	21	49

**Methanol**

Celanese's unit at Clear Lake, Tex., on-stream	R Dec	8	19
Georgia-Pacific's Plaquemine, La., complex in operation	R Aug	25	16
Prices	N Oct	6	43
Methionine - Degussa plans plant	R Aug	4	19
Methyl Chloride - Spain's Dequisa plans plant	N Sept	15	21
Methyl 3-dodecylbenzoyl-3(2)-iodium sulfonate) propionate - Surface-agents developed by IIT show promise of eliminating the need for phosphate in home laundry detergents	N Dec	1	43
Methyl Methacrylate - "Wood" from plastic from Japan?	Aug	25	44
Methylchlorosilanes - French plant at Roussillon complex	R Dec	1	21
Methylene Chloride - Paint remover market	Oct	20	65
Methylene Diisocyanate - Sumitomo Bayer Urethane's unit at Kikumoto works	R Sept	15	24

**Metric System**

Commerce's Stans recommends to Congress a switch to metric system; for CPI the tab could run \$1 billion	Aug	11	35
U.K. metrics advance	Oct	20	29

**Mexico**

Acrylic fiber plant	R Oct	27	19
Celanese Mexicana maps 10-year build-up	Sept	15	23
Government to prorate output by Mexican Frack producers	N Aug	18	73
Hydrofluoric acid: Mexican plants latest twist in bid to supply HF markets (chart)	July	14	34
Monsanto and Resistol S.A. merger will create Mexico's third largest chemical company, Industrias Resistol S.A. (IRSA)	N July	7	9
Pemex builds for export	July	7	44
PVC plant at San Martin Texmelucan	R Nov	10	87

**Midwest Research Institute**

Project Threshold: 3-year, \$2-million industry-financed study launched to find ways to assure accuracy of air pollution measurements	Sept	15	29
Study will attempt to answer how mercury can be transformed by living organisms into methyl mercury	N July	28	40
Milano, Robert - Millmaster Onyx Corp.'s chairman and chief executive officer: He'll take a hard look at his hometown	Aug	11	44
Receives SAACI's first Man-of-the-Year Award	Oct	13	25

**Mineral Exploration**

Alcoa jungle lab is on its way to analyze mineral deposits in Brazil	N Aug	18	88
Bolivia's new military regime is seeking foreign investments to develop its mineral resources	N Sept	8	19

Ocean mining see **Underwater Mining**

**Mining**

Interior Dept. grants leases to mine sodium salts in federal oil shale lands in Colo.	N July	14	10
Kennecott and Amax wrangle with Puerto Rico over copper mining terms	Oct	27	17
TGS study says mining at Lee Creek phosphate complex won't affect freshwater supply	Nov	3	17
Mining see also <b>Underwater Mining</b>			
Mining, Max - Witco's chief operating officer and MCA's chairman of the board: More of the same in his two new jobs	Aug	25	56
Resigns as Witco's president, will join Borden Inc. as a corporate v-p and head of its chemical div.	N Sept	8	9
Mixing - In-line blending eliminates tanks and complicated piping for mixing chemical products (flowcharts)	Nov	24	35
Molding - Nylons 11 and 12 bid for U.S. plastic molding and coatings jobs	July	14	27

**Molecular Sieves**

Patent literature provides new clues on commercial routes for separating paraxylens by molecular-sieve adsorption	Aug	11	37
UC's PuraSiv-n system Sept 1-44, N Nov 17-65	Dec	8	42

**Monomers**

Conoco Chemicals supplying VCM to three Brazilian companies Oct. 1	R Sept	29	24
EPDM producers fight for bigger share of the rubber market (charts)	Nov	24	27
Rumanian VCM plant	R Aug	4	19
VCM plant planned by Pekema as Finns take petrochemical plunge (table)	Aug	4	17
VCM shipping: alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms	Dec	22	16
VCM tank cars explode as 18 cars of Missouri Pacific freight train derail in Houston	Oct	27	20
VCM unit of Taiwan Vinyl Chloride Corp. starts up	R July	21	33
Moran, Juliette - GAF's senior v-p: A U.S. executive who reads Proust - in French	Aug	18	104
Morgens, Howard: New chairman at P&G	Oct	20	22

**N**

Nahcolite - Interior Dept. grants leases to mine sodium salts in federal oil shale lands in Colorado

**Naphtha**

Chem Systems' SNG market study shows petrochemical makers can't count on naphtha as a feedstock for long	N Nov	17	65
Ethylene plants of the future: new accent on heavier feedstocks	Sept	15	31
Europe's ethylene producers may switch from naphtha to ethane	N Nov	17	31
Gas companies plan to produce methane from coal, naphtha	Sept	1	9
Japan Gasoline negotiating deals with U.S. firms for its methane-rich gas process to make SNG from naphtha	N Dec	8	25
Japan will be using locally developed know-how in several years	Dec	1	21
Oil companies pitch for quota changes with more naphtha	Oct	20	20
Phillips Petroleum forecasts shortage by '75	N Nov	17	31
Teccon Gasification plans project to gasify 110,000 bbls./day of naphtha	N Oct	20	69
Transco planning plant to convert liquid hydrocarbons into synthetic natural gas	Oct	27	17
Naphthalene - Production in first eight months of '71: U.S. Tariff Comm. report	N Oct	20	55
Naringin Dihydrochalcone - Citrus-peel extracts promise sweetener without calories	July	21	21

**NASA**

Apollo 15 astronauts using new antifogging compound on their helmet visors	N Aug	4	34
Earth Resources Technology Satellite (ERTS) will eye pollution, test the latest monitoring gear	July	14	20
Searching for ways to use its technology to solve problems in pollution and clinical medicine	N Nov	24	33
National Agricultural Chemicals Assn. - Pesticides blasted in Nader's report	July	28	15
National Assn. for Manufacturers - "Dialogue for Action" discusses the multi-national corporation	Nov	17	22
National Assn. of Business Economists - Economists take new look at changing U.S. energy problems	Nov	10	19
National Bureau of Standards - Tungsten work could open commercial doors for organic derivatives of transition elements	N Nov	10	75
National Football League Players Assn. - Calls for "moratorium" on artificial turf; Monsanto says demands will not affect sales of its AstroTurf	Oct	13	24
National Foreign Trade Convention (68th): Survey reports U.S. overseas production has not cut U.S. exports	Nov	24	17
National Industrial Conference Board see <b>Conference Board</b>			
National Institute of Dental Research - Army's study attacking toothpastes draws blast from producers	Aug	18	26

**National Paint & Coatings Assn.**

Lead paint: FDA proposes cut in lead content of interior paints	Dec	15	41
Meeting: Major formulation changes are in store for the paint industry	N Nov	17	51
National Plastic Exposition and Conference in Chicago Oct 27-41	Nov	10	19
National Research Council - Study shows lead levels in air may threaten children's health, but are not a hazard to the general population	N Sept	15	35



**National Science Foundation**

Environment report says a crisis in environmental know-how is shaping up	N	July	14	23
Environment report says environmental ignorance has reached crisis stage		July	21	53
— letters July 28-5		Aug	18	5
Report on unemployment among scientists	N	July	7	18
"Research and Development in Industry, 1969", latest compilation		Sept	1	40

**Natural Gas**

Brooklyn Union Gas plant to convert naphtha into natural gas contract to Lummus	R	Aug	25	16
Canadian chemical makers would swap energy for access to U.S. markets — A neat Canadian caper — report (charts & table)		Aug	11	25
Chem Systems' SNG market study shows petrochemical makers can't count on naphtha as a feedstock for long	N	Nov	17	65
Chemical companies in the oil and gas business (table)		July	7	12
Cities Service Oil to expand Texas plants capacities	R	Aug	11	10
Dow and North American Royalties joint oil and gas exploration program on the Gulf Coast	R	Sept	1	10
El Paso plans coal gasification plant in New Mexico	N	Aug	25	47
Ethylene plants of the future: new accent on heavier feedstocks		Sept	15	31
FPC bows to producers, grants gas price boosts in the Southwest		Nov	10	20
FPC defends gas price hikes	R	Dec	15	22
France agrees to buy natural gas from Russia	N	Aug	18	31
Gas companies plan to produce methane from coal, naphtha		Sept	1	9
Illinois chemical firms may soon be eyeing natural gas substitutes	N	Sept	1	43
Industry and Dept. of Interior will launch joint research program to develop commercial coal gasification program		Aug	11	11
Japan Gasoline negotiating deals with U.S. firms for its methane-rich gas process to make substitute natural gas from naphtha	N	Dec	8	25
Kellogg and British Gas Council sub-license natural gas technology cross-licensing arrangement	N	Aug	18	88
Liquefaction plant at Canvey Island, England	R	Dec	8	28
Liquefaction unit in the Malaysia-Borneo area planned	N	Aug	18	31
LNG: El Paso-Algerian gas deal		July	7	15
LNG imports blocked		Aug	11	11
Defense and State Dept. okay \$1 billion deal		Aug	11	11
Marad asks FPC to deliver into El Paso's intentions to build cryogenic tankers in France to transport LNG to U.S.		Sept	29	22
Six gas ships, maybe		Oct	27	21
Louisiana rate case hearings may result in ouster of Nassikas as chairman of FPC		July	21	12
Price increase approved; Congress looks at FPC policies		July	28	16
Louisiana's Hackett: New federal moves may further aggravate gas shortage		Sept	29	20
Magnuson bill directs FPC to develop its own estimates of reserves		Aug	11	9
NGL demand puts squeeze on chemical plants based on ethane and propane		Oct	6	10
Offshore gas and oil lease plan backed		Sept	15	17
Pipeline-gas-from-natural-liquids plants	N	Oct	27	37
N Oct 20-69	N	Aug	18	24
Rates may rise		Oct	27	33
Shortage of natural gas spurs coal gasification		Oct	27	33
Spain interested in Algerian proposal to pipe natural gas from North Africa to Europe	N	Oct	6	19
SNG: Oil companies pitch for quota changes with more naphtha to use as feedstock to manufacture SNG		Oct	20	20
Tenneco deal would swap American-built ships and grain farm equipment for Russian natural gas and oil	N	Dec	8	14
Texas Eastern Transmission files application with FPC to import LNG from Libya	R	Oct	13	29
Texas natural gas pipeline system is being expanded 333 miles		July	21	13
Texas Sen. Tower introduces bill to stimulate oil and gas exploration; would give tax credit for domestic exploration	N	July	21	17
Transco planning plant to convert liquid hydrocarbons into SNG		Oct	27	17
Underground nuclear blast at Amchitka Is., Alaska, may lead to use of such explosions to tap new sources	R	Nov	17	24
Natural Rubber Producers' Research Assn. — Pilot studies on a novel urethane cross-linking system for rubber	N	July	28	40

**Naval Stores**

Hercules' Brunswick, Ga. naval stores plant cleaning up pollution problems	N	Aug	25	19
Prices		July	7	34
Nochesperidin Dihydrochalcone (NHD) — Citrus-peel extract promises a sweetener without calories		July	21	21

**Neoprene**

Butadiene demand	Nov	3	41
Du Pont's Montague plant doomed by high operating costs	Sept	22	22
Neptunium — GE's nuclear fuel reprocessing plant will use new techniques (flow-sheet)	Aug	18	91

**Netherlands**

Air Products brings onstream steam plant at air-separation complex	R	Aug	4	19
Air pollution study	N	Sept	8	40
AKZO's quarterly report is gloomy	N	Nov	24	43
CFP Total's refinery	N	Sept	22	51
Diphenylolpropane plant	N	Aug	18	31
Dow's polystyrene expansion at Terneuzen will be adapted to produce ABS	N	Sept	29	27
DSM will decentralize, shorten its lines of communication to achieve the greater marketing flexibility needed for its new product mix		July	7	41
European plant sites report (map, chart, table)		Aug	25	31
Formaldehyde resins unit for Delfzijl planned by Akzo and DSM	R	July	21	33
Gulf Oil appealing Rozenburg order to close new ethylene plant in Rotterdam	N	Aug	25	20
Gulf may have to spend \$1 million to lessen noise and optical pollution problems	N	Sept	8	19
Marbon's Amsterdam plant practically destroyed by explosion and fire; environmentalists protesting rebuilding of the plant	N	Aug	25	20
Partly back in operation by next month	N	Sept	29	27
Nederlandse Stickeroff Maatschappij increases urea and ammonia capacity	R	Dec	22	21
Propylene seaweed prevents shore erosion, may provide breeding areas for marine life		July	14	37
Rotterdam-Antwerp pipeline complex is expanding	N	Dec	1	29
Styrene-butadiene capacity in Shell's Pernis complex boosted	R	July	28	15
Upjohn plans urethane chemical intermediates plant at Delfzijl	R	July	28	15
Upjohn Polymer's plant at Delfzijl for production of basic materials for plastics	R	July	7	45

**Nickel**

Botswana nickel-copper development; stock transactions must be ironed out		Aug	4	11
Inco cuts mining operations an additional 15% at Sudbury, Ont., and Thompson, Man.		Nov	10	19
Inco trimming nickel production in Canada; copper prices cut	N	Dec	1	29
Softness in nickel market causes Inco to cut back		Aug	18	25
Niger Republic — Uranium minerals processing plant in Niger desert	R	Aug	4	19

**Nigeria**

North African oil crisis may be brewing	N	Nov	10	27
Plastics dispersion unit at Ikeja	R	Dec	8	28
Nitrates — FDA may probe use of nitrates and nitrites in food additives		Oct	27	17
Nitration — GE process for metal nitrations		Nov	24	42

**Nitric Acid**

Bohm Aluminum pleads no contest to nitric acid spill charges	R	Aug	18	29
EPA issues clean air standards for plants		Aug	25	14
EPA standards: new sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task		Sept	1	44
EPA's final standards for emissions from sulfuric and nitric acid plants are still two weeks away	N	Nov	3	51
Mobay's unit at New Martinsville, W.Va., explosion	R	Nov	17	24
Molecular sieves for controlling emissions — UC's ParaSiv-6 system		Sept	1	44
Sept 1-44, N Nov 17-65		Dec	8	42
Support system for platinum gauze catalyst for nitric acid plants	N	July	28	39
Nitrites — FDA may probe use of nitrites and nitrites in food additives		Oct	27	17

**Nitrotriacetic Acid**

NTA issue could become even more controversial due to series of industry-supported interim reports	N	July	7	9
Surgeon General turns thumbs down on NTA for use in detergents		Sept	22	20
NTA see also Detergents — Detergent phosphate replacements		Dec	15	24

**Nitrogen**

Cryogenic nitrogen plant for Indonesia	R	Sept	15	24
Fertilizer exports ready to end two-year slump (charts)		Sept	15	27
Nixon, Alan — New president-elect of ACS		Dec	15	24

North Sea — European nations consider curbs on North Sea waste disposal (map)

July	7	24
<b>Nylon</b>		
Air bag restraint system controversy		July 28 16
Bags vying for a share of the cooking market	N	Oct 27 29
Du Pont's nylon spinner units converted to polyester fiber production at Kingston, Ont., plant	R	Dec 1 21
Gelsenberg to expand Phrix plant	R	Aug 4 19
ICI nylon operations drops 1,450 jobs	N	Aug 4 20
Iran's Aliaf to double nylon yarn output	R	Aug 4 19
Israel's nylon filament plant	R	Nov 24 21
Nomex as boat-building material		July 21 46
Prices move up		Aug 4 27
Staple shipments		Aug 11 18
Nylon 6/6 — Monsanto hopes to crack the Japanese nylon market	N	July 14 40
Nylons 11 and 12 in fight for auto and communications markets		July 14 27

**O**

Ocean exploration and mining see **Underwater Mining**

Ohya, Shinzo — Teijin's president: At 77, he's not too old to lead a protest march		Oct 27 56
Oil Shale see <b>Shale Oil</b>		

**Oils & Fats**

Chemicals in coatings — report, Dikran Yazujian (charts & tables)		Oct 20 35
Pine oil: Hercules' Brunswick, Ga. naval stores plant cleaning up pollution problems		Aug 25 19
Olefins — UC to close Texas City #2 olefins unit	N	Sept 8 25

**Organic Chemicals**

Output down — U.S. Tariff Commission report	N	Nov 24 23
Output lagging	N	Sept 22 59
Production in first eight months of '71: U.S. Tariff Comm. report	N	Oct 20 55
SOCMA at 50: not too old to take up the battle for new causes		Dec 1 25
Oxidation — Licentia offering technology for the production of caprolactam by oxidation of cyclohexane	N	July 14 23
Oxides — Metallic oxides: High-energy magnetic tapes sound off		July 7 36
Oxygenation — Esso Research's separation technique adapted for use in blood oxygenation		Sept 22 69

**Ozone**

Ozone adds punch to oxidation of waste waters		Nov 3 53
Ozone and sonics team up in an unusual assault on bacteria and organics in water	N	Sept 22 73

**P****Packaging**

FDA is gearing up for a probe of chemical packaging practices		Sept 15 16
FDA states that the use of recycled paper for food packaging has resulted in high polychlorinated biphenyls in the foods; launches a nationwide survey	N	Oct 27 25
Solid-waste disposal problem: Researchers try to develop degradable plastics for packaging		Dec 8 45
Sweden's new "self-destruct" approach to plastic packaging	N	Sept 22 74

**Paint**

Lead in paint: FDA to restrict lead content in paint used on surfaces that might be exposed to children	N	Nov 3 14
Lead faces new bans		Nov 17 22
FDA proposes cut in lead content of interior paints		Dec 15 41
NPCA meeting: Major formulation changes are in store for the paint industry	N	Nov 17 51
Paint remover sales take off: new aerosol packaging and a growing outlet in furniture refinishing boost market		Oct 20 65
Pakistan — Dewood Hercules Chemicals will close Lahore fertilizer plant temporarily	R	Dec 15 33
Palladium — Platinum market demand could create problems for slower-growing palladium (charts)		Aug 11 16
Panic, Milan — Founder and president of International Chemical & Nuclear Corp. Yugoslav bicycle clamp a big winner in U.S. drug industry		Dec 22 40

**Paper**

California law requires all state and public agencies to buy recycled paper if it costs no more than regular paper and is as good	R	Dec 8 19
FDA says use of recycled paper for food packaging has resulted in high polychlorinated biphenyls in foods; launches a nationwide survey	N	Oct 27 25

(N Newsletter, R Roundup.)

Japanese pipe is being sold here in violation of the anti-dumping law charges manufacturers	Nov	10	19	NYC's 2d tax on plastic containers battle July 7-12, Sept 8-17, Sept 29-24, R Oct 6-15	Oct	20	21	FHA approves polyester-resin reinforced "paper" houses	Aug	11	11
NGL demand puts squeeze on chemical plants based on ethane and propane	Oct	6	10	Tax ruled "unconstitutional, invalid and void"	Nov	17	24	Film makers count on new uses to spur sagging growth (chart)	Aug	18	67
Oasis Pipe Line will construct pipeline to transport natural gas	Nov	24	19	Nigerian Hoechst's dispersion unit at Ikela	Dec	8	28	Film prices	July	14	33
Plastic: Justice Dept. charges five producers with conspiracy involving DWV plastic pipe fittings	July	21	17	Nylons 11 and 12 bid for U.S. plastic molding and coatings jobs	July	14	27	FMC's American Viscose will build plant to texturize polyester filament yarns for warp knit and texturized fabrics at Radford, Va.	Oct	27	21
Rotterdam-Antwerp pipeline complex expanding	Dec	1	29	Paper				Gelsenberg to expand Phrix plant	Aug	4	19
Russia: ethylene pipeline system will link complex at Nijnekamsk with Kazan	Sept	8	19	Acrolene Co. formed by UC and Mead	Nov	17	17	GE's new family of thermoplastic polyesters, Valox	Oct	6	48
Slurry pipelines have a big future in Australia	Nov	17	65	Northern Petrochemicals' Slatin underscores the progress plastic "paper" is making, at plastics show	Nov	10	19	Greek polyester fiber plant	Nov	25	20
Solids will move in pipelines using air as transport medium	Dec	22	31	FHA approves polyester-resin reinforced "paper" houses	Aug	11	11	High-energy magnetic tapes sound off	July	7	36
Spain interested in Algerian proposal to pipe natural gas from North Africa to Europe	Oct	6	19	Production figures from Tariff Commission	July	28	21	Market down in '70 adds to glycol overcapacity (chart)	July	21	37
Tenneco studying the possibility of a 25-mile acetylene line to GA at Texas City	Dec	22	31	Reinforced plastics are making new inroads into the construction market	Dec	8	29	Output	July	14	33
Texas natural gas pipeline system is being expanded 333 miles	July	21	13	Snow, plastic: ethylene-vinyl acetate criss-cross strips lengthen ski season near Bergamo, Italy	Sept	1	11	Russia: Techmashimport polyester fiber plant onstream at Mogilev	July	21	33
Transco unveils plans for pipeline transport of bulk products	Oct	27	17	Solvay moves deeper into plastics	Sept	29	29	Stevens, J.P.: Fantasia process for improving the comfort of polyester fabrics	Oct	13	83
Place, John - Anaconda's president and chief executive officer will become chairman	Oct	13	27	Sweden has a new "self-destruct" approach to plastic packaging	Sept	22	74	Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31
Plant Location - European plant sites report (maps, charts, table)	Aug	25	23	Synthetic turf: NFLPA calls for "moralatorium" on artificial turf; Monsanto says demands will not affect its sales of AstroTurf	Oct	13	24	Taiwan: Oriental Chemical Fiber will build polyester filament plant	July	7	45
Plasma - Tokamak not perfectly circular and it is this imperfection that results in heat loss, says Gulf scientists	July	14	23	Waste disposal: Researchers try to develop degradable plastics for packaging	Dec	8	45				
				Waste disposal: Villain in solid wastes? "Wood" from plastic from Japan?	Aug	25	44				
				World plastics market	Sept	28	37				
				Plastics see also specific plastic							
<b>Plastic Film</b>								<b>Polyethylene</b>			
Celanese introduces new triple-threat polypropylene film	Sept	22	73	<b>Plating</b>				Algerian LDPE plant	Oct	20	31
Cooking film market: UC introduces a turkey-size heat-sealed polyester bag	Oct	27	29	Scovill Mfg.'s process for saving plating wastes	Sept	15	29	Beer cases made of HDPE	Dec	1	29
Du Pont expanding PE film plant at North Bay, Canada	Dec	1	21	Technic, Inc. offers free consulting service for companies with plating problems	Dec	22	36	Brazil: Dow may build HDPE plant in Bahia	Oct	13	31
Ilkco's "disintegrating bottle" has layers of thin plastic film	July	21	13	<b>Platinum</b>				Clinton, la.	Oct	13	29
ICI will boost capacity of its Dummfries, Scotland, polyester film plant	July	28	15	Demand: auto exhaust-control devices could double platinum use by '76, could flood markets for coproduced palladium (charts)	Aug	11	16	LDPE plant in Antwerp capacity tripled	Sept	29	27
Polyester film makers count on new uses to spur sagging growth (chart)	Aug	18	67	Production down	Dec	8	29	Major plastics: growth curves flattening (charts)	Sept	8	27
Polyester film prices	July	14	33	Support system for platinum gauze catalyst for nitric acid plants	July	28	39	Output	Oct	6	5
Prices	July	21	41	Plutonium - GE's nuclear fuel reprocessing plant will use new techniques (flowchart)	Aug	18	91	Pekema plane PE complex as Finns take petrochemical plunge (table)	Aug	4	17
Tervakoski Osakeyhtiö PP film plant; Finns take petrochemical plunge (table)	Aug	4	17					<b>Plastic film see Plastic Film</b>			
								Plastic spheres will be used to reclaim 2,400-ton barge from the Gulf of Mexico	Aug	18	88
<b>Plasticizers</b>								Poland: Salzgitter offers to build PE plant and coking unit in exchange for Polish coal	Aug	4	19
Howard & Sons' phthalate plasticizer units at Cornwall, Ont., expansion	Dec	1	21					Production	Dec	1	29
Solid plasticizers prices	Sept	22	59					Spain: Dow Uniquina plans units at Tarragona plant	July	7	45
USS Chemicals adds unit to its Neville Island, Pa., plant	Nov	24	19					Taiwan approves expansion plans	Dec	22	21
								Venezuelan plant will use French technology	Oct	20	31
<b>Plastics</b>								<b>Polymers</b>			
ABS: Borg-Warner's Marbon Div. boosting ABS resin capacity at Washington, W. Va., plant	July	28	9					AKU-Goodrich plans polymer plant at Geel, Belgium	July	7	15
ABS: Dow's polystyrene expansion at Terneuzen, Netherlands, will be adapted to produce ABS	Sept	29	27					Dynachem's dry film photopolymer could eliminate some disposal problems	Nov	24	33
ABS: Monsanto completing an expansion for Lustran ABS plastic at Addyston, O., and constructing ABS plant at Antwerp, Belgium	Sept	1	5					Nylons 11 and 12: New manufacturing methods and a U.S. plant will strengthen nylons in fight for auto and communications markets	July	14	27
ABS and carbonoxylated styrene-butadiene plant: Britain's International Synthetic Rubber starts up plant	July	28	15					Photopolymers broaden markets in electronics, metal parts	Oct	27	39
ABS demand has producers scrambling: housing and auto outputs create spot shortages and boost prices (chart)	Aug	25	39					Rohm and Haas polymer to improve impact of PVC products	Aug	11	39
ABS expansion at Yokkaichi, Japan	Sept	1	5					Samsco Chemical develops compound to confound graffiti artists	Aug	11	10
ABS is on the upbeat (table)	Oct	20	23					Solid-waste disposal problem: Researchers try to develop degradable plastics for packaging	Dec	8	45
ABS output is up sharply this year	July	14	33					Upjohn's Fine Chemicals Div. develops Photoid, light-sensitive polymer that bonds itself to other materials	Oct	6	48
ABS plant of Marbon at Amsterdam practically destroyed by explosion and fire: environmentalists protesting rebuilding	Aug	25	20					"Wood" from plastic from Japan	Aug	25	44
Partly back in operation by next month	Sept	29	27					Polyolefins - Output will total about 7.5 billion lbs. this year	Dec	1	29
Australian plastics tariff could hurt PE and PVC producers	Sept	1	13					<b>Polyols</b>			
Automobiles: Ford's proposed safety car could broaden outlets for plastics	Aug	4	10					Reichhold's polyether polyols plant in production	Sept	29	24
Automobiles: plastics in '72 models - No big gains; auto makers ask suppliers to roll back prices to '70 levels	Sept	15	41					Urethane foam polyols prices	Dec	15	27
Bottle shipments down	Oct	27	29					Polyphenyl sulfide - Phillips plans Ryon unit at Philtex plant, Tex.	July	21	49
Freeport Kaolin develops process for surface-modified pigments, "OX" process	Aug	11	35					<b>Polypropylene</b>			
Golf equipment, using plastics, gets big boost from pros in U.S. Open	July	21	45					Argentine plant in Mendoza province planned	Nov	17	31
Indian Head Inc., glass container producer, diversifying into plastics	Dec	15	17					Dutch seaweed: propylene seaweed prevents shore erosion, may provide breeding areas for marine life	July	14	37
Irradiation turns acrylic-oak combination into durable flooring	July	14	37					Enjay predicts major growth in PP fabric markets	Nov	24	23
Justice Dept. charges five producers with conspiracy involving DWV plastic pipe fittings	July	21	17					Major plastics: growth curves flattening (charts)	Sept	8	27
Major plastics: growth curves flattening (charts)	Sept	8	27					Output	Oct	6	5
letter	Oct	6	5					Production figures from Tariff Commission	July	28	21
National Plastics Exposition will feature new products, technology Oct 27-41	Nov	10	19					First nine months	Dec	1	29
								Shell revives plans for unit at Sarnia, Canada	Oct	13	31
								<b>Polystyrene</b>			
								Major plastics: growth curves flattening (charts)	Sept	8	27
								letter	Oct	6	5
								Petrochemical investment expanding capacity of its Houston plant	Oct	6	15

(N Newsletter, R Roundup.)

Production figures from Tariff Commission	N	Aug	28	21	Congressional hearings on creation of wage-price review board	N	Aug	11	5	ChemStor groomed as chemical competitor to drying and airtight silos for feed storage	Oct	6	50					
Stymer plans polystyrene plant as Finns take petrochemical plunge (table)	N	Aug	4	17	Let's not lose momentum - Viewpoint	N	Aug	25	5	Propylene - Dutch sawed prevents shore erosion, may provide breeding areas for marine life	July	14	37					
Synthetic skin: "poly-ion complex" based on polystyrene that resembles living animal tissue	N	Aug	4	33	U.S. companies look like winners	N	Aug	25	10	Propylene see also Polypropylene								
<b>Polyvinyl Chloride</b>					Chemical producers studying the implications of the price-control measures in Nixon's new economic policy	N	Aug	25	37	Propylene Glycol - PPG licenses process from Kuraray Co.; putting onstream at Penuelas, P.R., an olefins plant (with Corcol) that will make 650 million lbs/year of propylene coproducts	N	Oct	27	37				
BP's unit at Baglan Bay, So. Wales	R	Dec	8	28	Chemical producers are unimpressed with the news that price ceilings can be based on May 25, 1970 prices	N	Sept	1	33	<b>Propylene Oxide</b>								
Conoco Plastics discontinues PVC copolymers production	N	Dec	8	29	Wage-price freeze program could hurt U.S. auto industry	Sept	8	13	Dow's Midland, Mich., plant closed	N	Sept	1	33					
Denmark's first PVC plant	R	July	28	15	How chemical unions view the wage-price freeze	Sept	8	15	Dow's prices of propylene oxide, propylene glycol and dipropylene glycol	N	Aug	18	73					
Finland takes petrochemical plunge; Pekema plans PVC project (table)	Aug	4	17	What chemical makers want after the freeze	Sept	15	15	Oxirane plant at Bayport, Tex., will be back onstream by the end of Aug.; cause of the blast not yet revealed	N	July	7	33						
Gulf's PVC unit at Shawinigan, Canada, interests Goodrich	R	Dec	1	21	Industry's decision makers await government decision on freeze	Sept	22	19	Plant now onstream N Sept 1-33	R	Sept	22	24					
Israeli plant addition	R	Nov	24	21	Nixon's Phase II	Oct	13	21	<b>Protein</b>									
Major plastics: growth curves flattening (charts)	Sept	8	27	First look	Oct	27	5	Acadia Fisheries, only supplier for a FPC plant at Canso, Nova Scotia, goes bankrupt	Sept	15	17							
letter	Oct	6	5	A chance for prices to catch up with costs? (charts)	Oct	20	19	FPC: Nova Scotia initiates bankruptcy proceedings against Cardinal Protein	N	Nov	3	23						
Mexican plant at San Martin	R	Nov	10	87	Controls: how much, how soon?	Nov	3	16	Itaiproteine studying feasibility of building protein-from-hydrocarbon plant in Sardinia	N	Sept	8	19					
Texmelcan	R	Sept	1	11	McClaren warns business that antitrust pricing provisions have not been suspended	N	Nov	17	Protein-from-oil: German Science Ministry sets up program to develop process	N	Dec	1	43					
Plastic ski surface for practice slopes	N	Sept	3	23	Needed: plain talk on price rules - Viewpoint	Nov	24	5	Protein powder for mending rips and holes in clothing upholstery and rugs is a new twist in chemical "sewing"	Sept	22	61						
PVC copolymer resins prices	N	Nov	10	61	Phase II decisions weigh heavily in chemical price, wage moves	Nov	24	18	Proteins add muscle to toiletries and cosmetics	Aug	4	21						
Prices	N	Nov	10	61	Queuing for price hikes	Dec	1	17	Synthetic proteins: Liquigas negotiating to license technology from Dainippon	R	Nov	10	87					
Production figures from Tariff Commission	N	July	28	21	How big a price hike will chemical companies get? (table)	Dec	15	19	<b>Puerto Rico</b>									
Rohm and Haas polymer to improve impact of PVC products	N	Aug	11	39	Labor in '72: Union demands will be tougher despite Phase II	Dec	22	13	Corco's petrochemical expansion plans hit money problems	Oct	13	22						
Use in construction will grow sharply during the '70s	N	July	14	33	Sulfur sales restrictions will push prices up	N	Sept	15	Du Pont planning big dyes project	Aug	4	12						
Yugoslavian buildup	N	July	28	29	2% average increase in domestic chemical prices seen	N	Dec	22	9	Hydrocarbon processing increase seen as Corco contracts with Algeria's Soc. Nationale Sonatrach for feedstocks	N	Dec	22	9				
<b>Poromeric Materials</b>					Wholesale prices - Consensus: the turnaround has finally arrived - USBL statistics (charts)	July	21	11	Kennecott and Ammax wrangle with Puerto Rico over copper mining terms	Oct	27	17						
Du Pont's Corfam goes to Poland	Nov	17	22	Wholesale prices: chemical and allied products decline slightly last month - Dept. of Labor Index	Sept	15	25	Nucleus may find home in Puerto Rico	July	14	26							
Goodrich will stop making Aztran on Dec. 1	N	Oct	27	29	Prices also see specific chemical, commodity etc.	Oct	27	39	PS Commission approves plan	N	July	21	49					
New poromerics rush in where Corfam fears to tread; who's who in poromerics (table)	July	7	30	Printing - Photopolymers catching on	Oct	27	39	<b>Pulp</b>										
<b>Potash</b>					<b>Process Equipment</b>				International Paper to dedicate Ticonderoga, N.Y., pulp and paper mill	R	Oct	13	29					
Canada: Saskatchewan's new administration worries Canadian producers	N	July	7	33	Ammonia: mechanical design techniques and corrosion inhibitors cut plant downtime (table)	Oct	13	77	IP's Ticonderoga mill doesn't smell: pollution control to prevent the characteristic kraft-mill odor and treat plant effluent	Dec	1	41						
Canada: Saskatchewan's new government will take a strong role in the potash industry	N	Dec	22	27	Chemsworth: Process equipment makers take the floor	Dec	8	41	Northwest Paper's pulp mill expansion plans for Cloquet, Minn., plant-being trimmed	R	July	21	15					
Fertilizer exports ready to end two-year slump (charts)	Sept	15	27	Infrared scanning technique for detecting impending equipment failures by use of temperature profiles	Nov	17	66	Paper firms plan mergers, expansions: high costs crimp profits (table)	July	14	14							
Prices	N	Dec	22	27	Product Development - European firms to cooperate in market research and product planning as competition gets tougher	N	Nov	10	Rayonier Quebec plans to build three dissolving pulp mills in Canada	N	July	7	10					
Rio Tinto Zinc's project in Yorkshire, England, shelved	N	Sept	22	59	<b>Production</b>				Spring Chemical's system for spent sulfite liquor processing	N	Sept	29	51					
Potassium Azide - May become an important agricultural chemical and also reduce nitrate pollution of ground water and streams	N	Oct	20	69	Chemical and allied product shipments are up and inventories are down - Commerce Dept. report (chart)	Sept	15	17	Purchasing agents report: orders are up, prices are firming	Sept	15	18						
Potassium Bromate - Prices	N	July	14	33	CPI operating rates continue to slip (table)	Oct	6	15	Pyrolysis - Pyrolytic graphite ribbon from Pitzer	July	21	24						
Potassium Chlorate - Indian plant planned	Sept	15	23	Industrial operating rates in June '71	Aug	11	10	<b>R</b>										
Potassium Chloride - Indian plant	R	Dec	8	28	McGraw-Hill survey	R	Aug	11	Irradiation turns acrylic-oak combination into durable flooring	July	14	37						
Powder Metallurgy - Petrofina of Canada will temporarily close metal powder operation at Pointe-aux-Trembles, Que.	N	Oct	13	57	In-line blending eliminates tanks and complicated piping for mixing chemical products (flowcharts)	Nov	24	35	No routine radiation will be released from nuclear power plants using fast-breeder reactors says AEC	N	July	21	49					
<b>Power</b>					Maintenance costs are climbing: SEC data (table)	July	7	19	Radioactivity - AEC scraps plans for atomic disposal dump near Lyons, Kansas; decision could hold up licenses for new power plants	N	Oct	13	71					
Conoco's McLean suggests three specifics to solve the country's energy shortage	N	Nov	10	75	McCracken, P., sees productivity increasing 4% next year	N	Nov	10	13	<b>Railroads</b>								
Economists take new look at changing U.S. energy problems	Nov	10	19	Operating rates far from "ideal" - McGraw-Hill Dept. of Economics data (chart)	July	7	14	Freight rates see Freight Rates Strikes										
Lummas' Orr says some \$400 billion must be invested over the next 15 years to satisfy the anticipated U.S. energy requirement	N	Sept	22	73	Operating rates steady - McGraw-Hill Economics Dept. data (table)	Dec	8	19	Chemical shippers ponder how to deal with possible rail strikes	July	14	17						
MCA's meeting discusses big problems: profits, pollution, power	Dec	1	16	Outlook for long-range growth: about 6%/yr until '85 - McGraw-Hill Economics Dept. report (table)	Dec	22	14	Break in rail strike?	July	28	17							
<b>Preservatives</b>					Output, housing up - Commerce Dept. report	Nov	24	18	Gulf Coast chemical plants hard hit by strike	Aug	4	10						
Celanese's ChemStor new feed-grain preservative, also as high-energy animal feeds for beef cattle test-marketing program	N	Sept	8	25	Productivity: still the name of the game - Viewpoint	Nov	3	5	Rail rates up again?	Aug	11	12						
ChemStor groomed as chemical competitor to drying and airtight silos for feed storage	Oct	6	50	Productivity Commission: Nixon plans to convene special conference	N	Aug	18	17	Rail strike, maybe	N	Sept	29	17					
Sweden's NIPH stops use of diethylpyrocarbonate as drink preservative	N	Sept	1	43	Sept. 21 meeting shelved	N	Sept	8	9	Transportation new frontier for innovation - report, John Winton (chart & table)	Sept	29	53					
Presses - Hydraulic press capable of producing higher pressures developed in Sweden	N	Aug	25	47	Profitability - Maintenance management sharpens its skills to meet profitability challenge - report, Kenneth Brooks (charts & table)	Dec	1	45	VCM tank cars explode as 18 cars of Missouri Pacific freight train derail in Houston, Tex.	Oct	27	20						
Price, Robert, Jr. - UOP's Chemicals & Plastics Group v.p. He knows the name of the game	July	14	48	Profitability see also Financial					Rauch, Thomas - SKF's president and chief executive officer: Raises dogs... and profits	July	7	48						
<b>Prices</b>					<b>Propane</b>													
Chemical industry's move to win higher prices will gain momentum	N	July	28	21	Ethylene plants of the future: new accent on heavier feedstocks	Sept	15	31										
CW's stock prices and index (table)					NGL demand puts squeeze on chemical plants based on ethane and propane	Oct	6	10										
July 7-17, July 14-18, July 21-16, July 28-19, Aug 4-13, Aug 11-13, Aug 18-32, Aug 25-17, Sept 1-12, Sept 8-18, Sept 15-20, Sept 22-28, Sept 29-25, Oct 6-16, Oct 13-30, Oct 20-24, Oct 27-22, Nov 3-22, Nov 10-24, Nov 17-26, Nov 24-22, Dec 1-20, Dec 8-21, Dec 15-25	Dec	22	15	Prices	N	Oct	22	59										
Future price increases will be related to profits according to a formula set by the Price Commission	N	Nov	17	51	Process to make acrylonitrile from propane	N	Oct	20	69									
Nixon's game plan					<b>Propionic Acid</b>													
Hold-the-line decisions announced	N	July	7	18	Celanese's acetic and propionic acids test-marketing program for a new feed-grain preservative, ChemStor, also as high-energy animal feed for beef cattle	N	Sept	8	25									
Chemical executive reaction is mixed to wage-price controls	N	Aug	4	5														



**Rayon**

Fiber producers seek price increases under Phase II guidelines (chart)	Dec	8	17
High-tenacity rayon shipments	Aug	11	18
Prices N Dec 15-27	Dec	22	27
Tire-cord yarn prices	Aug	18	73

**Reactors**

Ammonia plants with 3,000-tons/day reactors are technically feasible	N	Sept	8	40
Farmland Industries' phosphate complex at Bartow, Fla., will test a new process for making phosphoric acid	Sept	22	67	
Farmland Industries' phosphoric acid plant near Lakeland, Fla., credits isothermal reactor with a single 300-hp. agitator for savings	N	Sept	15	35
No routine radiation will be released from nuclear power plants using fast-breeder reactors says AEC	N	July	21	49
Platform-mounted offshore nuclear power plants	Aug	18	98	
U.S. breeder-reactor demonstration project gets boost from Congress	Aug	4	12	
Reed, Charles - Moves up to senior v-p at GE	N	Aug	25	9
The man behind GE's most important chemical process	Sept	15	48	

**Refining**

Bolivia and Costa Rica discussing joint-venture possibilities	N	July	21	35
BP's Rotterdam refinery increases capacity	R	July	7	45
CFP Total's Netherlands refinery	N	Sept	22	51
Imperial Oil's refinery at Dartmouth, Nova Scotia, expansion	R	Sept	8	16
Murphy Oil expanding refineries at Meroux, La., and Superior, Wis.	R	Aug	25	16
Oil refining capacity must be quickly reversed or the U.S. will find itself dependent on foreign refineries	N	Aug	11	14
Oil's building boom: What gasoline refining changes mean for chemical plants (chart)	Sept	1	6	
Rental Business - Milt-Texil, joint venture, will rent industrial clothes	N	July	21	35

**Research**

Alcoa jungle lab is on its way to analyze mineral deposits in Brazil	N	Aug	18	88
Alza Corp. scientist V. Place says some foods eaten while taking certain medications can be harmful or even fatal	N	Sept	15	35
American Chemical Society (162nd) meeting: Comparing notes on research	Sept	22	69	
Cabot's silane-coated silicon dioxide is being readied for application as a coating for metals, paper, wood and textiles - it also may help in cleaning up oil spills	Sept	8	39	
- letter	Oct	13	5	
Citrus-peel extract, neohesperidin dihydrochalcone (NHDC), promises a sweetener without calories	July	21	21	
Closed-circuit tv helps researchers keep up with new technology	Nov	10	71	
Commerce Dept. "technology forecast" will pinpoint major developments in which foreign countries are substantially ahead of U.S.	N	July	21	17
"Conquest of Cancer" agency called for to spearhead the attack on cancer	Sept	15	37	
DDT: biodegradable versions of DDT	N	Aug	4	33
DDT may be able to slow the growth of a specific cancer	N	Sept	8	40
Enzymes detect and treat phenols in refinery and chemical wastes	Sept	22	63	
Federal R&D turns up	Sept	22	70	
Florida battles giant African snail infestation with metaldehyde	Nov	24	41	
Foliage and soil are new "instruments" for measuring pollution	Oct	20	61	
FDA's shortage of manpower means approval delays for chemicals	Nov	17	61	
GE process for milder nitrations	Nov	24	42	
Government charts point up R&D's role in trade	July	7	28	
- letter	Aug	4	4	
Hoechst's Theiss suggests research partnerships with chemical producers at home and abroad	N	Oct	13	31
Interdisciplinary research: lab directors find they need help from experts in a lot of other sciences to come up with good solutions (table)	Aug	25	43	
Iowa State University researchers find green plants might make sophisticated pollution detectors	N	Aug	25	47
Malaria-carrying mosquitoes build up resistance to insecticides	Aug	4	36	
Narcotic antagonist: Drugmakers seek vaccine and pill to fight narcotic addiction	Sept	1	39	
NASA searching for ways to use its technology to solve problems in pollution and clinical medicine	N	Nov	24	33
NSF's latest R&D compilation, "Research and Development in Industry, 1969"	Sept	1	40	
Natural gas industry and Dept. of Interior will launch joint research program to develop commercial coal gasification program	Aug	11	11	
Nuplex may find home in Puerto Rico	July	14	26	
PS Commission approves plan	N	July	21	49

**Patent Office: two-month wait for ap-**

pointment of new commissioner focuses attention on problems of licensing practices, antitrust violations, delays in patent processing	Oct	20	59	
Pesticide R&D - letter	July	28	5	
Photopolymers broaden markets in electronics, metal parts	Oct	27	39	
Russians offering technology-for-license package with a raft of processes and products for the chemical industry (tables)	Aug	4	31	
Russians sign technical cooperation agreements with Hoechst and Henkel	N	Nov	24	43
Solid-waste disposal problem: Researchers try to develop degradable plastics for packaging	Dec	8	45	
Spending heads up - Battelle forecast	Dec	15	36	
Trade secrets: Conference Board survey reports on why it's hard to keep a secret	Dec	15	36	
Tungsten: NBS work could open commercial doors for organic derivatives of transition elements	N	Nov	10	75
U.K. study shows why some R&D projects never get out of the lab (table)	Oct	6	45	

**Resins**

ABS see <b>Plastics</b>				
Chemicals in coatings - report, Dikran Yazujian (charts & tables)	Oct	20	35	
Diamond's license agreement with Sumitomo for the manufacture of its cation-type Duolite ion exchange resins in Japan	R	Sept	15	18
Eastman plant at Longview, Tex., started up	N	Nov	10	61
Epoxy resin plant at Chiba Works, Japan	R	Nov	3	17
Epoxy resin production	N	July	14	33
High-energy magnetic tapes sound off	July	7	36	
Japanese-French joint venture urethane resins plant	N	July	14	40
Major plastics: growth curves flattening (charts)	Sept	8	27	
- letter	Oct	6	5	
Phillips plans Ryton resins unit at Philtec plant, Tex.	N	July	21	49
Polyester-resin reinforced "paper" houses approved by FHA	Aug	11	11	
Production figures from Tariff Comm.	N	July	28	21
Silicone resins prices	N	July	21	41
Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31	

**Reverse Osmosis**

Ajax International will build the world's largest r-o water treatment plant at Santa Barbara, Calif.	N	July	14	23
Du Pont wins Kirkpatrick Award for Permasep filter development	Oct	6	14	
Gulf South Research Institute process for applying RO to the refining of a petrochemical waste stream	Dec	8	42	
Rockets - Aerojet General may convert its solid- and liquid-fueled rocket facilities to chemical production	N	Sept	15	35

**Rosin**

Hercules' Brunswick, Ga. naval stores plant cleaning up pollution problems	Aug	25	19	
Naval stores prices	N	July	7	34

**Rubber**

Battelle Memorial: EPA grant to study the potential usefulness of rubber from discarded tires in blacktop dressings for driveways and parking lots	R	July	28	18
Du Pont's Montague neoprene plant doomed by high operating costs	Sept	22	22	
EPDM producers fight for bigger share of the rubber market (charts)	Nov	24	27	
Monsanto's rubber chemicals plant at Antwerp, Belgium, completed	R	July	28	18
Pilot studies on a novel urethane cross-linking system for rubber	N	July	28	40
Polymer Corp. asks for a finding that imports of styrene-butadiene rubber by Goodyear of Canada be considered dumping of the material by its Japanese producer	N	Sept	1	33
Prices	N	July	21	41
Shell dropping SBR	Nov	17	23	
Shell will boost styrene-butadiene capacity at Pernis, Holland complex	R	July	28	15
Synthetic rubber is the biggest market of all butadiene use	Nov	3	41	
URW turns down contract bid to restore eight-hour day	July	7	16	
URW's Bonmarito says imports causing unemployment; will ask the multinational tire and rubber companies to make regular contributions to URW's supplemental unemployment benefit plan pegged to the differences in unit labor costs between an item made in the U.S. and overseas	N	Nov	24	13
Ruckelshaus, William - EPA head: Cool politician patrols vast pollution beat	Oct	6	56	

**Rumans**

Acrylonitrile plant at Pitesti contract goes to Badger Ltd.	R	Dec	1	21
Ethylene oxide and ethylene glycol plant planned	R	Nov	24	21

**Seeking chemical trade and joint ventures**

with U.S. firms	N	Oct	6	19
U.S. delegation representing chemical engineering and equipment firms off to Russia and Rumania	N	Nov	3	43
VCM plant	R	Aug	4	19

**Russia**

British polyester fiber complex at Mogilev; no harassment or reprisals for the U.K.'s ouster of Soviet spies has been reported	N	Oct	6	19
Chemical and petrochemical output rose about 11% in first six months of '71	N	Aug	4	20
Chemical production up	N	Nov	10	27
Contracts for equipment for ammonia plants with Toyo Engineering	R	Dec	15	33
DMT plant completed	R	Sept	1	10
Ethylene pipeline system will link complex at Nipnekamsk with Kazan	N	Sept	8	19
France will buy natural gas	N	Aug	18	31
Franco-Soviet oil refinery in France and French aid in building cellulose plant in Russia possible	N	Aug	18	31
Glycerol plant uses Sofina design and Solvay technology	R	Aug	4	19
Japan signs new five-year trade pact with USSR	N	Oct	27	43
Nixon's planned China visit will affect U.S.-Soviet relations	July	28	18	
Petrochemical deals with U.S. likely even if trade barriers are not removed	N	Dec	15	35
Soviets to help Algeria develop its oil-gas and petrochemical industries	N	Nov	24	43
Sulfuric acid plants will be built by Polimex	R	Sept	15	24
Techmashimport polyester fiber plant onstream at Mogilev	R	July	21	33
Technical cooperation agreements with Hoechst and Henkel signed	N	Nov	24	43
Technology: Soviet Union offering licenses on some of its petrochemical technology	N	July	14	23
Technology-for-license package with a raft of processes and products for the chemical industry (tables)	Aug	4	31	
Tenasco deal would swap American-built ships and grain farm equipment for Russian natural gas and oil	N	Dec	8	14
Tokomak not perfectly circular and it is this imperfection that results in heat loss, says Gulf scientists	N	July	14	23
Trade boost with the West is expected to result from the visits by top Soviet leaders to Algeria, Canada and France	N	Nov	3	43
U.S.S.R. seeks joint ventures with West	Oct	20	29	
U.S. delegation investigates business opportunities	Nov	17	38	
U.S. delegation representing chemical engineering and equipment firms off to Russia and Rumania	N	Nov	3	43
VC monomer plant will use U.S. technology	N	Sept	8	19

**S****Safety**

Automobiles see <b>Automobiles</b>				
Consumers Union urges ban on household cleaning products	Aug	25	13	
Detergents see <b>Detergents</b>				
Drugs see <b>Drugs</b>				
Food additives see <b>Food Additives</b>				
GAF suspends manufacture of liquid chlorine and caustic soda at its Linden, N.J., plant because of mercury problems	Oct	6	13	
Hazardous chemicals: MCA sets up Chemtrec as a new means of providing safety and handling information	N	Sept	8	25
Hazardous materials: hearing on safety standards for transportation critics DOT	Nov	24	20	
H-E-W's list of toxic substances for use in the enforcement of the new Occupational Safety and Health Act	Aug	18	27	
Job-safety legislation see <b>Law</b>				
Joint management-labor safety committee suggested by OCAW's Davidson	Nov	17	25	
Lead see <b>Lead</b>				
MCA panel on occupational safety	Dec	1	16	
Nuclear safety see <b>Atomic Power</b>				
OCAW may bring action against Mobile Oil in job safety dispute	Dec	8	19	
Pipeline safety see <b>Pipeline</b>				
Pollution control see <b>Air Pollution, Environment, Water Pollution</b>				
PCB under scrutiny	Oct	13	21	
Tire standards costly industry complains	July	7	14	
Toxic Substances Control Act see <b>Law</b>				
"Unity on asbestos!" - Clearing the air - letter	Sept	29	15	
Salesmen's Assn. of the American Chemical Industry - 50th anniversary; will present its first Man-of-the-Year Award to Millmaster Onyx Chairman Robert Milano	Oct	13	25	
Salt				
Diamond Crystal Salt's rock salt plans	R	Dec	15	22
FDA proposes ban on household products containing cyanide salts	Oct	20	23	

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**Sulfur**

Canada: Alberta's government will issue guidelines for sulfur producers	N	Aug	4	28
Canada: Alberta's stockpiling program is dead	N	Nov	24	23
Canadian meeting of producing and consuming nations: a final version of a global sulfur sales prorationing plan	N	Oct	20	55
Canadian switch in sulfur stockpiling plans could hurt U.S. firms	Dec	1	18	
Humble's Baton Rouge, La. refinery will add sulfur recovery equipment	R	Aug	25	16
International sulfur markets: Canada, France, Mexico and Poland agree to ration sulfur sales	N	Sept	14	25
Inventories N Aug 25-37	N	Sept	22	59
Markets are still sluggish	N	Sept	22	59
Mexican government to prorate output by Mexican Frasch producers	N	Aug	18	73
Northwest Air Pollution Authority sets tonnage limit on sulfur compound emissions in industrial area near Anacortes, Wash.	R	Dec	1	18
Parsons-Union Oil process produces super sulfur recovery from refinery waste gases	N	Sept	22	73
Pilot plant to get elemental sulfur from sulfur dioxide in smelter gas	N	Sept	29	51
Prices	N	Oct	20	55
Sales restrictions will push prices up	N	Sept	15	25
Stocks are still creeping up	N	Oct	27	29
Stretford process, which can also remove 99.9% of sulfur from gas, sub-licensed by Pritchard to Black, Sivalis & Bryson	N	Sept	22	74
Texaco contracts Ford, Bacon & Davis for sulfur recovery plant at Pointe-a-Pierre, Trinidad	R	Sept	8	16
U.S. output	N	Aug	4	28

**Sulfur Dioxide**

Carbon particles and sulfur dioxide may lower man's ability to fight infection says Penn. State's Zakworski	N	Dec	8	43
Delaware's air pollution regulations for sulfur dioxide emissions: Getty Oil and Stauffer Chemical ask for more time to comply with Sept. 1 '73 deadline	Oct	13	21	
A sad tale of sulfur dioxide - Viewpoint	Dec	8	5	

Sulfur Dioxide see also **Air Pollution****Sulfuric Acid**

Asarco's plant at El Paso, Tex.	R	Aug	18	29
EPA clean air standards	Aug	25	14	
New sulfuric plants should have little trouble meeting air standards, but nitric plant designers face a tougher task	Sept	1	44	
Final standards still two weeks away	N	Nov	3	51
Producers fight EPA's proposed emission standards	Dec	8	33	
Essex contracts Chemico for sulfuric acid plant at Rumford, R.I.	R	Sept	1	10
Finnish buildup (table)	Aug	4	18	
Israeli plant	R	Oct	20	30
Molecular sieves may be the answer to controlling emissions from sulfuric acid and nitric acid plants: U.C. Pura-Siv-n system Sept 1-44, N Nov 17-65	Dec	8	42	
Russian plants will be built by Polimex	R	Sept	15	24
A sad tale of sulfur dioxide - Viewpoint	Dec	8	5	
Stauffer's Houston sulfuric acid plant: emissions: company fined \$500 for contempt of court	Aug	11	10	

**Surfactants**

GAF ponders product shifts at Linden, N.J.	Oct	20	22	
Nonphosphate detergents boost the use of nonionic surfactants	Aug	18	35	
- letter	Sept	8	5	
Purex boosts nonionics	Aug	18	39	
Surface-active agents developed by IIT show promise of eliminating the need for phosphate in home laundry detergents	N	Dec	1	43

**Sweden**

Consumer ombudsman rules that contents given in ounces, rather than grams, in an odd-shaped bottle might be misleading	Sept	15	45	
Europe's first plant for desulfurizing heavy fuel oil will be built in Gothenburg	R	Oct	27	19
French and Swedish gas leaders team up	Sept	15	23	
KemaNord reports sales, profits, capital spending	Sept	29	32	
NIPH stops use of diethylpyrocarbonate as drink preservative	N	Sept	1	43
"Self-destruct" plastic: new approach to plastic packaging	N	Sept	22	74

**Sweeteners**

Bill would reimburse cyclamate manufacturers for losses incurred under cyclamate ban	Oct	6	13	
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Citrus-peel extract, neohesperidin dihydrochalcone (NHD), promises a sweetener without calories	July	21	21	
Switzerland - Bond market remains attractive	N	Nov	10	27

**Synthesis**

Camptothecin, potential anticancer compound synthesized at Columbia Univ.	Aug	18	87	
Zeocon synthesizes two new juvenile hormone analogs	N	Dec	8	43

**Synthetic Organic Chemical Manufacturers Assn.**

At 50: not too old to take up the battle for new causes	Dec	1	25	
Dow's Earle Barnes warns on environmental curbs on chemicals	Oct	20	21	
Lang, Ronald, says Nixon's new economic program will not lead to any long-term improvement in the deteriorating U.S. trade position in benzenoid chemicals	Sept	15	18	
Meeting (annual dinner): Baker, Sen., says cleaning up the environment is a global issue, and it should be handled on a world scale	Dec	8	20	
Syria - First phosphate plant inaugurated at Khnifis	R	Sept	29	32

**T****Taiwan see China, Nationalist**

Talcum Powder - FDA analysis finds as much as 25% asbestos content in samples of two leading brands of talcum powder	July	14	16	
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**Tankers**

Akzo's tanker Stella Maris back in Rotterdam after plan to discharge chlorinated waste in North Sea draws fire	Aug	4	24	
'Hudson Stream' plans to discharge 375,000 tons/year of industrial wastes off English shores have been delayed by outcries over pollution (map)	July	7	24	
Marad asks FPC to delve more deeply into El Paso's intentions to build cryogenic tankers in France to transport LNG to the U.S.	Sept	29	22	
Marine regulation: bill gives the Coast Guard authority to establish and operate marine traffic regulation systems in congested U.S. port waters	N	Aug	18	73
Nuclear ship "Savannah" may transport Puerto Rican chemicals or may become museum	Oct	27	21	
Tenneco deal would swap American-built ships and grain farm equipment for Russian natural gas and oil	N	Dec	8	14
Texas Gulf Coast needs supertanker facilities study shows	Aug	4	9	
Tantalum - Fansteel develops chemical vapor-deposition technique to clad process hardware with tantalum	Dec	1	43	
Tapes - High-energy magnetic tapes sound off	July	7	36	

**Tariffs**

ASP: trade negotiations may include provisions for modifying or eliminating the ASP basis of valuation	Dec	15	23	
American Standard's Eberle: Nixon choice to head U.S. trade negotiating team	Oct	6	13	
Australian plastics tariff could hurt PE and PVC producers	N	Sept	1	13
Benzenoid: SOCOMA's Lang says Nixon's new economic program will not lead to any long-term improvement in the deteriorating U.S. trade position in benzenoid chemicals	Sept	15	18	
Benzenoid imports shoot up (chart)	Sept	1	11	
Japan is easing import restrictions	N	July	28	29
Japanese textiles see imports - Japanese textiles	Aug	25	5	
Let's not lose momentum - Nixon program: good start, but business needs details for long pull - Viewpoint	Aug	25	5	
MCA's midyear meeting: the international monetary and trade crises and the impact on chemical companies' foreign and domestic profits	N	Nov	24	13
NFTC survey reports U.S. overseas production has not cut U.S. exports	N	Nov	24	17
Nixon's "game plan" and Phase II see	Nov	24	17	

**Financial**

Presidential Commission on International Trade and Investment policy report doubtless will add to the monetary controversy	N	Aug	18	18
Presidential Commission on International Trade and Investment study recommends repeal of ASP valuation system	Sept	22	24	
Tariff Commission taking a hard line on adjustment assistance	N	Sept	22	17
TV imports: unions seek "escape clause" relief under provisions of the Trade Expansion Act of '62	N	Oct	13	17
10% surcharge	Sept	1	13	
European Common Market calls for early removal of the U.S. 10% import surtax	N	Sept	1	13
GATT members entitled to take counter-action against the 10% surcharge	N	Sept	22	51

10% surcharge won't be temporary at all	N	Sept	29	17
Canada's CIL could lose as much as 4% in sales as a result of 10% surcharge	N	Sept	29	27
10% surcharge causing foreign competitors to step up production of their U.S. facilities; look for some of them to begin setting up licensing agreements with U.S. agents	N	Oct	27	13
Aceto Chemical reports 10-20% of the products it handles are now unprofitable due to 10% surcharge	N	Oct	27	13
10% surcharge can be hiked to 15% under new emergency authority	Nov	17	24	
Trade bill: Unions pushing the trade bill introduced by Sen. Hartke	Nov	17	25	
Tasmania - Sulfuric acid facility	R	Sept	15	24

**Taxation**

Antipollution advocates urge taxes on sulfur and other plant emissions	July	21	15	
The Asset Depreciation Range (ADR) system: suit filed against the Treasury Dept.'s new regulations	N	July	14	9
Congressional workload shapes up; legislators may propose a combination of tax credits for business investments and a cut in income taxes	Aug	18	28	
Delaware corporations face increased taxes under provisions of new tax package	N	Aug	4	6
Depreciation: new ADR rule will help, but industry is losing "grow power" (chart & table)	Aug	4	7	
Dow's C. Gerstaecker on the tax bill (N)	Dec	1	13	
European plant sites report (maps, charts, table)	Aug	25	23	
Florida voters approve corporate income tax	Nov	10	18	
Germany: entertainment expenses of chemical companies will no longer be tax-deductible if a government tax reform bill is passed by the legislature	N	Nov	10	27
IRS says fines and penalties charged to a business will not be considered as a business expense and can't be deducted on corporate tax returns	N	Sept	8	9
Investment credit	July	28	18	
Rep. Mills says needed investment-tax credit is not likely in '71	Sept	29	5	
Investment credit can be a liability - Viewpoint	Sept	29	5	
House Committee overhauls Nixon's tax credit proposals	Sept	29	21	
Monsanto changing method of depreciating machinery and equipment	N	Dec	15	17
N.Y.C.'s 2d tax on plastic containers battle July 7-12, Sept 8-17, Sept 29-34, R Oct 6-15	Oct	20	21	
Tax ruled "unconstitutional, invalid and void"	R	Nov	17	24
Nixon's "game plan" and Phase II see	Oct	6	9	
Nixon's tax plans reviewed Sept 8-17	N	Oct	6	9
Pennsylvania's "oppressive" corporate taxes may force chemical companies to move N Aug 4-6	N	Aug	18	18
Pennsylvania's top CPI firms threaten to seek greener tax pastures	Sept	29	39	
Plant sites '71 report - taxes and incentives, J.M. Winton (table)	Oct	13	46	
Pollution control equipment: Companies may apply for rapid write-off of pollution control equipment	N	Nov	24	14
Sulfur tax on way	Dec	22	16	
Tax bill: Senate may scale down some benefits for business and broaden income tax cuts for individuals	N	Oct	13	17
Tax break for business by Christmas? tax check-off to finance Presidential elections opposed by White House	N	Dec	1	13
U.K. jogs economy	July	28	17	
War tax case: Treasury Dept. is going to Supreme Court in an attempt to block U.S. Steel from getting back \$28 million in taxes the co. says it should not have paid 20 years ago	Dec	8	20	
What's at stake for CPI companies in off-year elections	Oct	27	20	

**Television**

Closed-circuit TV helps researchers keep up with new technology	Nov	10	71	
Imports: union seek "escape clause" relief under provisions of the Trade Expansion Act of '62	N	Oct	13	17

**Terrestrial Acid**

Foster Wheeler licensing rights to Tennessee Eastman's TPA and DMT technology obtained	N	Nov	17	65
Hercules plans plant at Wilmington, N.C.	N	Aug	11	6
Spanish unit in Tarragona	R	Dec	8	28
Terminals - San Francisco voters okay bond issue for construction of a port container terminal	Nov	10	18	

**Testing**

Four chemical formulations can be pressure-impregnated into wood shingles to impart long-term fire retardance	Aug	4	22	
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Infrared scanning technique for detecting impending equipment failures by use of temperature profiles	Nov	17	66	Transportation - Transportation new frontier for innovation - report, John Winton (chart & table)	Sept	29	53	Wholesale Price Index: chemical and allied products declined slightly last month	N	Sept	15	25			
Israeli diagnostic test for cancer evaluation	N	July	28	40	Transportation see also <b>Aeronautics, Barges, Railroads, Shipping, Trucks</b>			<b>U.S. Navy</b>							
Toys: pollution test kits	Dec	22	34	Trichloroethylene - Hooker will phase out its TCE production at Niagara Falls, N.Y., by January	R	Dec	8	19	Naval Research Lab. scientists find mercury toxic to algae	N	Oct	6	48		
Tetrafluoroethylene-ethylene copolymer from Montedison, TE	N	Aug	11	39	Trinidad - Texaco contracts Ford, Bacon & Davis to build sulfur recovery plant at Pointe-a-Pierre	R	Sept	8	16	Shipboard treatment process to be adopted		Dec	15	20	
<b>Textiles</b>									University of California - Starts a 4-month investigation of water in the San Joaquin Valley; will study the effect of pesticides	N	Aug	18	88		
FMC's American Viscose will build plant to texturize polyester filament yarns for warp knit and texturized fabrics at Radford, Va.	R	Oct	27	21	<b>Trucks</b>				University of Chicago Medical School - Study tests safety of phosphate and nonphosphate detergents	N	Nov	17	51		
Fiber producers seek price increase under Phase II guidelines (chart)	Dec	8	17	Titanium tank truck	N	Nov	17	51	University of Illinois - Biodegradable versions of DDT	N	Aug	4	33		
Hong Kong's new plan for limiting exports of man-made and woolen textiles to the U.S. is "totally unacceptable" to Washington	N	Sept	22	17	Transportation new frontier for innovation - report, John Winton (chart & table)				<b>University of Pennsylvania</b>						
ICI plans acquisition of four texturizing companies N Aug 11-31	N	Sept	22	51	Trudeau, Pierre - Slave to fashion - letter				Air conditioner can "store up coolness" during periods of low power needs	N	July	7	27		
Imports					Tungsten - NBS work could open commercial doors for organic derivatives of transition elements	N	Nov	10	75	Enzymes detect and treat phenols in refinery and chemical wastes	Sept	22	63		
Far East trade issue remains unresolved	N	July	7	10	Tungsten Carbide - Sandvik Steel starts production	N	Aug	11	40	University of Texas - Plastic recycling study	July	28	26		
Imports soar (chart)	Sept	22	22	Turkey - Acrylic fiber plant onstream	R	Oct	27	19	University of Utah - Foliage and soil are new "instruments" for measuring pollution		Oct	20	61		
New quotas on imports of man-made and woolen textiles from the four big Asian suppliers may be added to the Nixon game plan	N	Sept	29	17	<b>Turpentine</b>				<b>Uranium</b>						
Trade bill see <b>Tariffs</b> - Trade bill					Hercules' Brunswick, Ga. naval stores plant cleaning up pollution problems				AEC shares know-how on nuclear fuel enrichment		Dec	8	18		
U.S. Tariff Commission decisions on requests for adjustment assistance show no pattern as yet	N	Nov	17	17	Naval stores prices	N	Aug	25	19	GE's nuclear fuel reprocessing plant will use new techniques (flowsheet)	Aug	18	91		
Industry in the red: Commerce Dept. 10-month import-exports figures	Dec	22	14	<b>U</b>					Japanese firm to export fabricated nuclear fuel; agreement with the Pakistani AEC	N	Aug	18	87		
Japanese imports					Ultrasonics - Ozone and sonics team up in an unusual assault on bacteria and organics in water	N	Sept	22	73	Nuclear research reactor fuel provides several times the useful life span of previous fuels	N	July	7	27	
Curbs on U.S. imports of man-made fiber products stir protest in Japan, but are favored by most U.S. fiber and fabric makers (chart)	Oct	27	15	<b>Underwater Mining</b>					Shortage of enriched uranium by '79 appears likely: Congressional Committee cites lag in AEC program	July	21	12			
How much will textile pact hurt?	N	Oct	10	87	Deep Sea Ventures plans commercial deep sea mining venture in '73	N	Oct	20	69	Soc. des Mines de l'Air starts up uranium processing plant in Niger desert	R	Aug	4	19	
Japan estimates it will lose about \$170 million worth of fiber exports as result of the proposed U.S. textile-fiber export control plan	N	Oct	20	31	Iran: joint exploration venture off the shore of Iran	R	Aug	11	10	U.S. gaseous diffusion technology is in the bidding for a multinational uranium enrichment plant	N	July	28	40	
Nixon Administration's threat to impose quotas unilaterally may result in export curbs	N	Oct	13	17	Offshore gas and oil lease plan backed	Sept	15	17							
Textile tariff worsens	Oct	6	14	UN Second Interregional Fertilizer Symposium - Mechanical design techniques and corrosion inhibitors out plant downtime (table)											
Stevens, J.P. Fantasies process for improving the comfort of polyester fabrics	Oct	13	83	U.S. Army - Study attacking toothpastes draws blast from producers											
<b>Thailand</b>					<b>U.S. Bureau of Mines</b>										
Petrochemical project delayed	N	Sept	29	27	Bruceton, Pa. unit to make pipeline gas using Synthene process	N	July	21	49	<b>Urethane</b>					
Teijin will postpone p-xylylene and DMT projects	N	Aug	4	20	Pilot study of an incinerator residue recycling process finds there's money to be made in "mining" garbage dumps	N	July	28	39	Foam polyols prices	N	Dec	15	27	
Thomas, Q. Pendleton - Goodrich considers him a "real winner," who will move the company ahead	Sept	22	23	<b>U.S. Dept. of Agriculture</b>						Japanese-French joint venture urethane resins plant is slated for northern France	N	July	14	40	
Can "Gray Fox" put bounce into tire maker?	Dec	15	56	CARG files a petition to halt Agriculture Dept. plans to issue royalty-free, exclusive licenses to Upjohn and Welch Foods	N	Sept	22	31	Pilot studies on a novel urethane cross-linking system for rubber	N	July	28	40		
Tiles - Decal system, Roll-Mark, will boost consumption of decorated ceramic tile	Aug	25	51	DES: hearings to find out why USDA failed to report findings of residues in some cattle and sheep tested	N	Oct	20	27	Pontiac's bumpers: urethane blocks inside telescoping steel boxes are impact absorbers	Sept	15	41			
<b>Tires</b>					Forest Products Lab. - four chemical formulations can be pressure-impregnated into wood shingles to impart long-term fire retardance	Aug	4	22	Shell Pipe Line will evaluate on-site production, shredding and spreading of urethane foam to soak up oil spills	N	Sept	8	40		
Brazilian plant at Americana	R	July	7	45	Venezuelan equine encephalomyelitis battle: chemical products, including vaccines and insecticides, are enlisted by government and state agencies	Sept	8	12	Stauffer sells its urethane foam operations to United Foam	Aug	18	25			
EPDM can't roll without tires (charts)	Nov	24	27	<b>U.S. Dept. of Commerce</b>					Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31			
Firestone's URW denounces decision to begin constructing a plant near Nashville, Tenn., to produce steel-cord radial truck tires	Sept	15	18	Government charts point up R&D's role in trade	July	7	28	Upjohn's urethane chemical intermediates plant at Delfzijl, Netherlands	R	July	28	15			
FTC challenges Firestone's ads	Sept	8	12	"Technology forecasts" will pinpoint major developments in which foreign countries are substantially ahead of U.S.	N	July	21	17	World's first all-urethane boat, dubbed the Pike, designed by Tedruth Plastics	Sept	22	61			
General Tire's suit against British Firestone subsidiary on patent on tire treads made from oil-extended rubber upheld by British court	N	Aug	11	39	U.S. Dept. of Health, Education & Welfare - List of toxic substances for use in the enforcement of the new Occupational Safety and Health Act	Aug	18	27	Utilities: SEC raps utilities for diversifying into manufacturing	July	28	28			
Standards costly industry complains	July	7	14	<b>U.S. Dept. of the Interior</b>					Vaccines see <b>Drugs</b>						
<b>Titanium</b>					Aluminum producers and USDI officials explore what can be done about strengthening domestic aluminum production resources	July	7	34	Varnishes - Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31			
Anode for chlorine cells: Olin to install the anode at Augusta, Ga.	N	Oct	27	37	Bureau of Land Management hearings on off-shore oil and gas leases	Sept	15	17	<b>Venezuela</b>						
Tanker: first titanium tanker ever built for general chemical trucking	N	Nov	17	51	Electrodialysis plant at Webster, S.D., will shut down	N	July	14	23	Carbon dioxide plant planned by Gascarb	R	Aug	4	19	
Titanium Metals closes ingot plant at Henderson, Nev. temporarily	Sept	1	8	Grants leases to mine sodium salts in federal oil shale lands in Colo.	N	July	14	10	Goodrich Chemicals' vinyl chloride plant	N	Aug	25	20		
<b>Titanium Dioxide</b>					Joint research program with natural gas industry to develop commercial coal gasification program	Aug	11	11	Polyethylene plant will use French technology	N	Oct	20	31		
Coatings business improvement seen as key to solving cost and marketing problems (chart & table)	Dec	22	23	Office of Coal Research - shortage of natural gas spurs coal gasification development	Oct	27	33	Venture-capital activities: Chemical companies are finding that investing venture capital in small new firms is a good way to diversify and increase profits	July	28	25				
Prices	N	Nov	10	61	"Prototype program" for the commercial development of oil shale resources on federal lands in Colo., Wyo., and Utah	N	July	7	18	Vermiculite - Grace, W.R. plans mill at Libby, Mont.	R	Aug	4	12	
Titanium Trichloride - Purechem's plant in the Bayport Industrial Park near Houston	R	Sept	8	16	<b>U.S. Dept. of Labor</b>				Viewpoint - Aug 11-4, Aug 25-5, Sept 29-5, Nov 3-5, Nov 24-5, Dec 1-5, Dec 8-5	Dec	22	5			
Toiletries - Proteins add muscle to toiletries and cosmetics	Aug	4	21	Program to put unemployed engineers, scientists and technicians back to work	N	Sept	22	17	Vinyl - Output	N	July	14	33		
Toluene - Prices	R	July	7	34					Vinyl Chloride - Goodrich Chemicals plans Venezuelan plant	N	Aug	25	20		
<b>Toothpastes</b>									Vinyl Chloride Monomers see <b>Monomers</b>						
Army's study attacking toothpastes draws blast from producers	Aug	18	26						Vinyl - Kuraray to sell plant to North Korea	N	Sept	22	51		
Makers deny Nader's charges that stannous fluoride in toothpaste stains teeth	July	21	13						vonBerg, William - Sybron's president: Accountant's three-part package adds up	Nov	17	82			
Toys - Toy makers are taking advantage of the growing interest in ecology, offer test kits, games, inexpensive monitoring devices	Dec	22	34												
Trademarks - Humble testing customer reaction to a new trademark, EXXON	N	Sept	29	17											
Trade Secrets - Conference Board reports on why it's hard to keep a secret	Dec	15	36												
Training - Closed-circuit TV helps researchers keep up with new technology	Nov	10	71												

(N Newsletter, R Roundup.)



## W

## Warehousing

Management research consultants team up in two new ventures to offer managed warehouses	Nov	3	49
Transportation new frontier for innovation - report, John Winton (chart & table)	Sept	29	53

## Waste Disposal

Akzo's tanker Stella Maris back in Rotterdam after plan to discharge chlorinated waste in North Sea draws fire	Aug	4	24
AEC scraps plans for atomic disposal dump near Lyons, Kansas; decision could hold up licenses for new power plants	N Oct	13	71
Cesco uncovers four new bacterial strains that might accelerate biodegradation of hydrocarbon wastes	N Aug	25	47
Deep-sea disposal: researchers at Water Pollution Control Federation conference give clean bill of health to Atlantic Ocean disposal of Philadelphia's wastes	Oct	13	65
Deep-well disposal: Justice Dept. asks injunction against Armo Steel's drilling of deep wells to dispose of waste materials	N Aug	11	40
European nations consider curbs on North Sea waste disposal (map)	July	7	24
Hercules: Georgia turns down permanent permit for use of coastal Marshlands to dump excess dirt from Brunswick, Ga., operations	R July	28	18
Navy moves to adopt shipboard sewage treatment process	Dec	15	20
Ocean dumping bill may be passed before Congress recesses Aug. 6	N Aug	4	15
Pfizer's antibiotic production residue from Groton, Conn. plant: company may switch to a land-disposal system to assuage EPA's concern about the aquatic environment of the sound	Oct	20	21
Plastics disposal: Researchers try to develop degradable plastics for packaging	Dec	8	45
Plastics disposal: Villain in solid wastes?	July	28	26
Union Camp builds \$17-million lagoon to solve waste problems	Aug	11	32
Williams Bros. Engineering has contract for solid-waste disposal plant for Oklahoma's Indian Nations Council of Governments	R Aug	18	29

## Waste Treatment

Centrifuges designed for dewatering chemical plant wastes can cut the costs of secondary treatment and incineration	Dec	15	37
Delaware River and Basin Commission okay construction of regional waste collection and treatment system in Deepwater, N.J.	R Oct	13	29
EPA will channel \$500 million into improving treatment methods of removing detergent phosphates from sewage plant wastes	Oct	6	47
Enzymes detect and treat phenols in refinery and chemical wastes	Sept	22	63
Houston Ship Channel industries are moving toward regional waste treatment	N Sept	1	43
IP's Ticonderoga mill doesn't smell: pollution control to prevent the characteristic Kraft-mill odor and treat plant effluent	Dec	1	41
Ozone adds punch to oxidation of waste waters	Nov	3	53
Ozone and sonics team up in an unusual assault on bacteria and organics in water	N Sept	22	73
Phosphate removal at waste treatment plants - Water Pollution Control Federation conference	Oct	13	65
Rollins-Purle's Logan Township, N.J., plant ordered by the state to install acceptable waste-water treatment and disposal units	R Nov	3	19
Sewage from a new housing development will be processed to drinking water quality in a new packaged physical-chemical waste treatment system N July 28-39	Aug	4	23
Toxophene waste control key to Hercules' naval stores cleanup	Aug	25	19
Union Camp builds \$17-million lagoon to solve waste problems	Aug	11	32

## Waste Utilization

Aluminum Assn.'s waste recycling plant concept praised	Nov	3	19
Detroit's program to recycle glass containers may be stymied	Aug	11	10
Process for complete recycle of pickle liquor	Dec	8	42
Scovill Mfg.'s process for saving plating wastes	Sept	15	29
Sewage plant, that looks like a home, will convert development's wastes into an ash and water of potable standard N July 28-39	Aug	4	23

USBM pilot study of an incinerator residue recycling process finds there's money to be made in "mining" garbage dumps

## Water Pollution

Akzo's tanker Stella Maris back in Rotterdam after plan to discharge chlorinated waste in North Sea draws fire	Aug	4	24
Asbestos: Illinois issues new regulations on asbestos	N Dec	8	43
AEC hearings on standards for radiation emission and for emergency core-cooling systems in nuclear power plants to be held in January	N Dec	8	14
Bohm Aluminum & Brass pleads no contest to nitric acid spill charges	R Aug	18	29
Congress' stringent control bill that would retain "zero discharge" goal draws industry fire	Dec	22	15
Detergent phosphates, detergents see			

## Detergents

Dow's Midland, Mich. plant's accidental spill results in \$500 fine	Aug	11	34
1899 Refuse Act			
Anacosta Wire & Cable charged with dumping waste from its Hastings-on-Hudson, N.Y. plant into Hudson River	Sept	15	18
Pleads guilty	Oct	6	11
Fined for 100 unlawful discharges	Nov	24	19
Armo Steel's discharges of phenol effluent into Houston Ship Channel: a new court order relaxes ban	N Sept	29	51
Houston mill gets strict pollution timetable	Nov	17	24
Ashland Oil given 80 days to stop polluting the interstate waters of the Big Sandy River	July	7	15
EPA will include effluent limitations in permits only in cases of major sources of pollution	N Aug	4	15
Government asks that Rohm & Haas be enjoined from allegedly discharging toxic waste into the Houston Ship Channel	N July	28	9
Waste discharge permit applications: only 3,000 of the expected 40,000 received	N July	7	27
EPA recommends legal action be taken against 35 companies that have not applied for permits	N Sept	29	17
European nations consider curbs on North Sea waste disposal (map)	July	7	24
Florida formulates tough rules to control Escambia Bay discharges	Nov	10	18
Florida's proposed thermal pollution control standards draw fire	Dec	15	22
Houston Ship Channel operators must meet new discharge allowances by Dec. 31, '74	N Nov	10	75
Kellogg offering stripping unit to clean up steam condensate in ammonia plants	N July	21	49
Maine environmentalists defeat proposed desulfurization project of Maine Clean Fuels, Inc.	Aug	4	12
MCA's Byrd says states should have primary responsibility for water pollution control and the federal government should take a backup position	Sept	22	23
Mercury			
Borohydride system for mercury removal	N Dec	8	43
Congressman wants mercury users to share abatement secrets: Georgia-Pacific offers information	July	14	16
Georgia-Pacific's research project aimed at getting mercury out of a chlorine-caustic plant's waste sludge	N July	14	10
Naval Research Lab scientists say mercury is toxic to algae	Oct	6	48
Muskie's tough water bill due	Oct	27	21
Runs into temporary snag	N Nov	10	75
What chemical companies think of water pollution bill	Nov	24	15
Ocean dumping bill may be passed before Congress recesses Aug. 6	N Aug	4	15
Ohio River: state and federal officials blame each other for inadequate enforcement of pollution abatement schedules	Oct	13	23
Oil spills			
Cabot's Silanox 101 may help in cleaning up oil spills	Sept	8	39
Shell Pipe Line will evaluate on-site production, shredding and spreading of urethane foam to soak up oil spills	N Sept	8	40
Westinghouse Research uses garbage to clean up oil spills	Aug	18	24
Pfizer's antibiotic production residue from Groton, Conn. plant: company may switch to a land-disposal system to assuage EPA's concern about the aquatic environment of the sound	Oct	20	21
Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams	N Oct	20	69
Rollins-Purle's Logan Township, N.J., plant ordered by the state to install acceptable waste-water treatment and disposal units	R Nov	3	19

TGS study says mining at Lee Creek phosphate complex won't affect fresh-water supply

Union Camp builds \$17-million lagoon to solve waste problems	Aug	11	32
UN report says "serious threat" of marine pollution requires urgent action on a global scale	N July	21	49
Univ. of California scientists, starting a 4-month investigation of water in the San Joaquin Valley, will study the effect of pesticides	N Aug	18	88
Water Pollution Control Federation - 44th annual conference: researchers give clean bill of health to Atlantic Ocean disposal of Philadelphia's wastes	Oct	13	65
Water Repellents - Cabot's silane-coated silicon dioxide is being readied for application as a coating for metals, paper, wood and textiles - It also may help in cleaning up oil spills	Sept	8	39
- letter	Oct	13	5
Water Supply - Desalting see Water Treatment			

## Water Treatment

Ajax International will build the world's largest reverse osmosis w-t plant at Santa Barbara, Calif.	N July	14	23
Calgon's packaged cyanide-destruction unit is looking for work	N Nov	3	51
Chemetron's Holland, Mich. plant gets water treatment plant	R Aug	25	16
Desalting			
Dow's Western Div. to design and test large hollow fiber modules for desalting brackish waters	N Aug	18	88
Nuplex may find home in Puerto Rico	July	14	26
PS Commission approves plan	N July	21	49
Du Pont wins Kirkpatrick Award for Permapex filter development	Oct	6	14
Envirogenics pilot plant will remove even the traces of DDT from industrial waste waters	N Aug	4	33
Gulf South Research Institute process for applying reverse osmosis to the refining of a petrochemical waste stream	Dec	8	42
IP's Ticonderoga mill doesn't smell: pollution control to prevent the characteristic kraft-mill odor and treat plant effluent	Dec	1	41
Kellogg offering stripping unit to clean up steam condensate in ammonia plants	N July	21	49
Oil spills see Water Pollution			
Ozone adds punch to oxidation of waste waters	Nov	3	53
Ozone and sonics team up in an unusual assault on bacteria and organics in water	N Sept	22	73
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Society of Security Analysts	July	7	12	Technology for Turkey's acrylic fiber plant	R	Oct	27
Oil and gas business (table)				Chem Systems - SNG market study shows petrochemical makers can't count on naphtha as a feedstock for long	N	Nov	17
Water-repellent powder, Silonox 101, is being readied for application as a coating for metals, paper, wood and textiles - it also may help in cleaning up oil spills	Sept	8	39	Chemagro - Bayer merging six wholly owned subsidiaries	Dec	8	18
Calatrava - butadiene expansion at Puertollano	R	Oct	20	DDT substitutes, Propoxur, fenitrothion	Aug	4	36
Butadiene plant will use Japanese process	R	Aug	4	Chemcell Ltd. - acquiring CIL's interest in Cel-Cl Fibres Ltd.	July	7	41
Calgon Corp. - packaged cyanide destruction unit is looking for work	N	Nov	3	Name will be changed to Celanese	N	Nov	24
California & Hawaiian Sugar Co. - Leslie Salt's Chemical and Food divisions to be bought	R	Dec	1	Canada Ltd. at the beginning of '72	R	Nov	24
Calvo Sotelo - Calatrava see under name	Nov	24	31	Sales and earnings for 10 years - A neat Canadian caper - report (chart)	Aug	11	27
Camp Chemical - de-icer makers	Nov	24	31	Sales and earnings up in 3rd quarter	Nov	10	19
Canadian Industries Ltd. - ammonium chloride and sodium sulfate plant at Cornwall, Ont., planned	R	Sept	1	To acquire interest in Millhaven Fibres	July	7	41
Chemcell will acquire interest in Cel-Cl Fibres Ltd.	July	7	41	Chemicals, Ltd. - Chesapeake Corp.'s pulp-bleaching plant will use CL technology	R	July	14
Could lose as much as 4% in sales a result of the 10% U.S. import surcharge	N	Sept	29	Chemetron Corp. - Holland, Mich. plant gets water treatment plant	R	Aug	25
Sales and earnings up in 3rd quarter '71	Nov	10	19	Medical products division formed	R	July	7
Sells interest in Millhaven, pulls out of fibers	July	7	41	OCAW Local 3724 signs 2-yr contract	R	Aug	11
Canpotex - Saskatchewan's Bowerman asks potash industry to support association	N	Dec	22	Chemical Construction Corp. - contract for Esso's sulfuric acid plant at Rumford, R.I.	R	Sept	1
Carborundum Corp. - abrasives plant at Madras, India, expansion	Sept	15	23	Hydrofluoric acid processes using waste recovered from phosphate fertilizer plants	July	14	34
Fireproofing coatings for steel	Aug	11	19	Chemical Distributors Co. - acquires Arizona Agrochemical's fertilizer and agricultural chemicals business	R	Oct	6
Trimming tabs at trade shows	Nov	3	49	Chemical Products Co. - paint remover sales	Oct	20	65
Whitmore, Wm., executive vp and chief operating officer. This Englishman collects china, courts Japan	Dec	8	56	Chemical Separation Corp. - process for complete recycle of pickle liquor	Dec	8	42
Carbox AB - hydraulic press capable of producing higher pressures developed	N	Aug	25	Chemicals and Phosphates Ltd. - sulfuric acid plant in Israel	R	Oct	20
Cardinal Protein Ltd. - Acadia Fisheries, only supplier for a fish protein concentrate plant at Canso, Nova Scotia, goes bankrupt	Sept	15	17	Urea plant and ammonia unit start trial runs	R	Nov	3
Nova Scotia initiates bankruptcy proceedings against CP	N	Nov	3	Chemische Werke Huels AG - acquires 50% interest in Kunststoffwerke Hoehn	R	Oct	20
CARE, Inc. - Wanted: products for CARE - letter	Sept	1	4	Capital spending will be cut 50% in the next two years	R	Dec	1
- letter	Dec	15	5	DMT process for Russian plant	R	Sept	1
Carter-Wallace - Meproamate: case to get federal government to pay damages for patent infringement; company wins "opening skirmish"	N	Nov	3	Ethylene oxide capacity increase at Marl, West Germany	July	21	39
Cas, J.I. Co. - UAW Local 80 reaches agreement on 3-yr contract	Aug	11	12	Expansion plans	July	7	40
Cassella Farwerk Mainkur AG - sales and earnings, first half of '71	R	Sept	15	Polybutene-1: Researchers try to develop degradable plastics for packaging	Dec	8	45
Celanese Chemical Co. - acetic and propionic acids test-marketing program for a new feed-grain preservative, ChemStor, also as high-energy animal feeds for beef cattle	N	Sept	8	Sales and earnings '71	N	July	7
ChemStor wins trial as grain preservative	Oct	6	50	Chemicalplex - cooperation agreement with Ciba-Geigy	R	Aug	4
Gulf Coast chemical plants hard hit by RR strike	Aug	4	10	Chemplex - Clinton, Ia. LDPE capacity upped	R	Oct	13
Introduces new triple-threat polypropylene film	N	Sept	22	Chemtex Fibers - Greek polyester fiber plant	N	Aug	25
Justice Dept. suit charges conspiracy involving DWV plastic pipe fittings	N	July	21	Chesapeake Corp. of Virginia - pulp-bleaching plant will use Chemetics technology	R	July	14
Machinery and equipment from the cellulose flake section of Cumberland, Md., plant sold to Perry Equipment	R	Oct	27	Chestene & Crepes - ICI plans acquisition	N	Aug	11
Methanol prices	N	Oct	6	Chevron Chemical - purchase of Vectra Corp. boosts stake in synthetic fibers	July	14	15
Methanol unit at Clear Lake, Tex., onstream	R	Dec	8	China Gulf Plastics - chloride monomer plant expansion; VCM unit planned in Kaohsiung, Taiwan	Nov	3	45
Polyester film makers count on new uses to spur sagging growth (chart)	Aug	18	67	Chiso Corp. - polybutene-1: Researchers try to develop degradable plastics for packaging	Dec	8	45
Superfinishes, thermosetting coatings bid for furniture market	Dec	8	31	Chlor-Chem Ltd. - cyanuric acid and cyanuric salts plant	R	Oct	20
Celanese Canada Ltd. - new name for Chemcell	N	Nov	24	Chrysler Corp. - Dodge features a full-width front panel made of glass-fiber-reinforced polyester	Sept	15	41
Celanese Coatings - Devoe Div.: N.Y. cites patent for lead content	Dec	15	41	Church & Dwight - Arm & Hammer brand nonphosphate detergent arguments swirl	Sept	29	23
Celanese Mexicana - 10-year expansion program in Mexico could involve expenditure of \$300 million	Sept	15	23	Cia. Goodyear do Brasil - tire plant at Americana, Brazil	R	July	7
Cel-Cl Fibres Ltd. - Chemcell will acquire CIL interest in C-CFL	July	7	41	Cia. San Noe - PASCO will sell its interest to Financiara Banamex	R	Dec	15
Celso da Rocha Miranda - caprolactam unit in Brazil proposed	Dec	8	26	Ciba - iodophenol, DDT substitute	Aug	4	36
Central Salt & Marine Chemicals Research Institute - potassium chloride plant	R	Dec	8	Ciba-Geigy - borrowing \$24 million for expansion of its U.K. interests	N	July	7
Centre for the Study of Industrial Innovation - U.K. study shows why some R&D projects never get out of the lab (table)	Oct	6	45	Cooperation agreement with Chemolplex	R	Aug	4
Centric - centrifuge designs aimed at sludge dewatering	Dec	15	37	Intracolor Corp. see under name			
				Joint venture to market pharmaceuticals in Sweden	R	Oct	20
				Revised and C-G want to swap drug patents, market rights	July	7	13
				C-G will receive additional \$20 million	R	Oct	20
				Sale of dyestuffs and optical-brightening agents operations to Crompton & Knowles approved	R	Oct	6
				Cie. Francaise des Petroles - investment and production efforts linked with ELF-Erap; four subsidiaries formed	R	Dec	15
				Cie. Industrielle de Textiles Artificiels et Synthetiques - Rhone-Poulenc textile subsidiaries will be consolidated and merged with CTA	R	Oct	20
				Cities Service - carbon black unit in India	Sept	15	23
				Fungicide sales - Citicop 4-E N Aug 11-18	Sept	8	37
				Offering stockholders shares of Atlantic Richfield stock R Sept 29-24	R	Dec	22
				Texas natural gas plant capacities to be expanded	R	Aug	11
				Clapp & Poliak, Inc. - trimming tabs at trade shows	Nov	3	49
				Clayton, George D. & Assoc. - Project Threshold. 3-year, \$2-million industry-financed study launched to find ways to assure accuracy of air pollution measurements	Sept	15	29
				Cleveland-Cliffs Iron - Diamond Crystal Salt merger called off	N	Sept	8
				Tilden Creek, Mich. iron ore pellet output to be boosted	R	Aug	25
				Clorox Co. - Consumers Union urges ban on Liquid-Plumr	Aug	25	13
				Plans moving into the institutional products and freeze-dried food markets	R	Sept	29
				Sales and earnings, first-half '71	Aug	25	14
				Coastal States Gas - Lone Star Gas merger talks	N	July	7
				Colgate-Palmolive - argues for a uniform national limit on detergent phosphate content	N	Nov	3
				Cooking film on a roll, Reveal, offered	N	Oct	27
				Dividend boosted	R	Dec	22
				Florida's Dade County ordinance will mean company will stop selling detergents	N	Dec	15
				Kendall offered stock exchange	R	Oct	20
				Kendall considering merger proposal	R	Nov	3
				Merger rejected	Dec	1	17
				N.Y.'s Erie County phosphate ban challenged	N	Dec	15
				Collins & Aikman Corp. - tentative agreement for merger with Imperial Paper (table)	July	14	14
				Acquisition completed	R	Nov	3
				Columbia-Venezuelan Monomer Co. - caprolactam unit at Barranquilla	R	Dec	1
				Columbia Gas System Co. - SNG unit planned	Sept	1	9
				Columbia Gas Transmission - will consolidate operations of seven subsidiaries into one pipeline company	R	July	7
				Columbia LNG Corp. - pipeline gas from natural-liquids plant	N	Oct	20
				Combustion Engineering - agreement with Svenska Cellulosa Aktiebolaget gives CE rights to produce and market the SCA-Bilurid chemical recovery process for sodium-based waste sulfate liquor	R	Nov	24
				Debentures offering	Sept	22	19
				Incineration systems at Chemshow	Dec	8	41
				Cominco Ltd. - sales and earnings, first-half '71	Aug	25	14
				Commercial Solvents - metaldehyde tries to slow snail's pace	Nov	24	41
				Oil and gas business (table)	July	7	12
				Commonwealth Oil Refining - acquisition of Bay State	R	Aug	11
				Contracts with Algeria's Soc. Nationale Sonatrach for feedstocks	N	Dec	22
				Petrochemical expansion plans hit money problems	Oct	13	22
				Conoco Plastics - PVC copolymers discontinued	N	Dec	8
				Consolidated Aluminum Co. - aluminum ingot price slashed	N	Oct	13
				Strike goes on	Nov	24	21
				Consolidated Fertilizers Ltd. - Australia's fertilizers industry faces continued profit drought	July	14	43
				Consolidated Natural Gas - Tecon Gasification project	N	Oct	20
				Consolidation Coal - Conoco merger defended	July	28	17
				OCR pilot plant nearing completion at Rapid City, S.D.	Oct	27	33
				Utah reserves low in sulfur content	N	Sept	29
				Constructors John Brown - ethylene pipeline system will link Russian complex at Nijnekamsk with Kazan	N	Sept	8
				Consumers Power Co. - Midland, Mich., nuclear power station support grows	Nov	17	23
				SNG plant at Marysville, Mich. planned	Sept	1	9
				Consumers Union - Lushbaugh urges return to soap while industry develops a safe phosphate replacement	N	Nov	3
				Urges ban on household cleaning products	Aug	25	13
				Continental Copper & Steel - Braeburn Div. near Pittsburgh will close	R	Nov	24
				Continental Oil Co. - Agrico Chemical Div.'s Layton at Ft. annual conference says environmental concern, restrictions bother makers	Oct	13	20
				Burmah Oil still looking for partner after Conoco talks fail	July	7	13
				Conoco Chemicals - Nonionics are set for cleanup	Aug	18	35

(N Newsletter, R Roundup.)



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German subsidiaries, Du Pont Fotowerke Adox and Du Pont de Nemours (Deutschland) merged. Fotowerke becomes photo products department of Du Pont Deutschland	R	July	21	15
Gulf Coast ethylene plant may not be built	N	Nov	17	17
Haskins, Caryl. "Outside" directors are "in"	Aug	18	57	
Hydrofluoric acid unit slated for Burnside, La. (chart)	July	14	34	
Interdisciplinary research (table)	Aug	25	43	
Kirkpatrick Award for Permapac filter development won	Oct	6	14	
Latin American executives seek exemption from Nixon's import surcharge	N	Sept	15	21
Methanol prices	N	Oct	6	43
Mexican joint hydrofluoric acid plant near Matamoros planned	R	Aug	4	12
Moosic, Pa. explosives plant damaged by blast, will shut down production except for immediate DOD orders	R	Aug	11	10
Nader Report: The Raiders, too, have a responsibility	Sept	1	4	
Nader vs. Du Pont - CW special	Dec	1	5	
1. The Raiders throw the book at Du Pont	Dec	1	31	
2. It started with a phone call	Dec	1	35	
3. The Raiders. Who they are, how they work	Dec	1	36	
Du Pont answers the charges of Nader's Raiders	Dec	8	36	
Neoprene plant at Montague, Mich., doomed by high operating costs	Sept	22	22	
'72 outlook: McCoy sees fiber sales, firmer prices boosting profits	Dec	22	29	
Nitric acid plants at Gibbstown, N.J., use Chemico double-catalytic combustors	Sept	1	44	
Nomex as boat-building material	July	21	46	
Nylon prices move up	Aug	4	27	
Optical fiber "new type", Crofon IIR, R	Sept	29	24	
Paint remover sales	Oct	20	65	
Pension plan liberalized	N	July	28	9
Photo Products Dept. - High-energy magnetic tapes sound off	July	7	36	
Pigments plant in Newark shuttered for two days as a result of power failure caused by tropical storm Doria	Sept	8	15	
Polyester film makers count on new uses to spur sagging growth (chart)	Aug	18	67	
Polyester film prices	N	July	14	33
PE film plant at North Bay, Canada, expansion	R	Dec	1	21
Polypropylene patent dispute with Montedison still not settled	N	Dec	15	39
Printing plates made with photopolymer	Oct	27	39	
Puerto Rican dyes project planned	Aug	4	12	
Railroads strike effect	July	14	17	
Realigns product lines: Industrial Chemicals Dept., Polymer Intermediates Dept. and Photo Products Dept. will be set up	N	Nov	24	20
Reader on wage-price controls	N	Aug	4	5
Sulfate: remaining capacity to be phased out by '74	Dec	22	23	
Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31	
Surllyn ionomer coating for golf balls	July	21	45	
Taiwan plant to make precision-molded parts for electronics products	Nov	3	45	
Thermoplastic elastomers, new class called Hytrel	R	Nov	24	29
Toluene diisocyanate plant in Brazil proposed	Dec	8	26	
Unions go global	July	14	17	
Zerex antifreeze: right to promote antifreeze as self-sealing won	N	Nov	24	23
Du Pont of Canada - nylon spinner units converted to polyester fiber production at Kingston, Ont. plant	R	Dec	1	21
Sales and earnings for 10 years - A neat Canadian caper - report (chart)	Aug	11	27	
Sales and earnings up in 3rd quarter '71	Nov	10	19	
Du Pont Fotowerke Adox - merged. Merged with Du Pont Fotowerke Adox. Fotowerke becomes photo products department	R	July	21	15
Du Pont Europa Holdings - floats a \$20-million, 15-year bond issue	N	Sept	15	21
Du Pont Fotowerke Adox - Merged. Fotowerke becomes photo products department of Du Pont	R	July	21	15
Deutschland	R	July	21	15
Du Pont de Nemours International - floats a 15-year, \$8-million Swiss franc bond issue	N	Sept	15	21
Greek polyester fiber plant	N	Aug	25	20
Du Pont Overseas Finance - plans to offer \$30 million worth of notes, due '78	R	Dec	8	28
Dynachem Corp. - dry film photopolymer could eliminate some disposal problems	N	Nov	24	33
Dutch State Mines sees DSM				

## E

ESB Inc. - Pennsylvania being pressured for some kind of corporate tax relief	N	Aug	18	18
Top CPI firms threaten to seek greener tax pastures	Sept	29	39	
Early California Industries - sells its chemical fertilizer and pesticide business to Valley Nitrogen	R	Oct	6	15

Eastern Nitrogen Co. - Australia's fertilizers industry faces continued profit drought	July	14	43	
Eastman Chemical Products - cellulose acetate butyrate (CAB) modified urethane finish for furniture	Dec	8	31	
Resins plant at Longview, Tex., started up	N	Nov	10	61
Ebara Mfg. - sulfuric acid plant on Hokkaido Island	R	July	14	16
Ecocontrol - toys pollution test kits	Dec	22	34	
Ecodyne Corp. - phosphate, nonphosphate detergent arguments swirl	Sept	29	23	
Economics Laboratory - Consumers Union urges ban on Finish and Electrasol	Aug	25	13	
Sales and earnings	Sept	8	16	
Eirol Ltd. - petrochemical complex at Ringskiddy, Ireland	Sept	8	22	
Elastomer AG - BASF acquires complete ownership	N	July	7	40
Elcor Chemical - "four-point program for growth"	Sept	8	14	
Seeking refuge under Chapter 11 of the Bankruptcy Act	N	July	28	9
Electro-Chemical Industries - Israeli PVC plant addition	R	Nov	24	21
ELF-Erap - investment and production efforts linked with Cie. Francaise des Petroles; four subsidiaries for med.	R	Dec	15	33
Petrochemical research efforts to be pooled with AGIP and Petrofina	R	Dec	15	33
Elizabeth Arden Sales Corp. - American Cyanamid's controversy with Eli Lilly and EASC case to court	Sept	29	23	
El Paso Natural Gas - Algerian LNG deal	July	7	15	
LNG imports blocked	Aug	11	11	
Defense and State Dept. okay \$1 billion deal	Aug	11	11	
Marad asks FCC to deny in El Paso's intentions to build cryogenic tankers in France to transport LNG to U.S.	Sept	29	22	
Six gas ships, maybe	Oct	27	21	
Coal gasification: shortage of natural gas spurs coal gasification development	Oct	27	33	
Coal gasification plant planned in New Mexico N Aug 25-47	Sept	1	9	
Commercial coal gasification plant may be taking shape in the heart of Texas	N	Aug	18	87
Merger with Pacific Northwest: bribery charges stymie merger okay	Dec	8	17	
Emery Industries - Pres. D.R. Hinkley reported sales up, earnings down, outlook bright	July	7	13	
Empresa Nacional de Petroleo (ENAP) - raw materials for Concepcion complex	N	Sept	15	21
Endo Laboratories - drugmakers seek vaccine and pill to fight narcotic addiction	Sept	1	39	
Energia e Industrias Aragonas S.A. - Degussa see Desarrollo Quimico Industrial S.A.				
Energoinvest see Rad. Energoinvest				
Engelhard Industries - Ford will install PTX exhaust gas purifiers in all cars for sale in California in 1974 - Aug 11-16	N	Dec	15	39
Metal Alloys see under name				
Engelhard Minerals & Chemicals - public offering of 25-year convertible debentures	R	Sept	22	24
Stock offering deferred	R	Nov	10	20
Worldwide rights to isomerization process developed by British Petroleum	N	Aug	11	40
Enjay Chemical - ethylene plant at Bayway, N.J., will be shut down N Nov 10-13	Nov	17	23	
Ethylene project still on the active list	N	Nov	17	17
Humble testing customer reaction to a new trademark, EXXON	N	Sept	29	17
Predicts major growth in PP fabric markets; Summerville, N.C. plant slated to open in May '72	N	Nov	24	23
Enviro - toys: pollution test kits	Dec	22	34	
Enviro-Chem Systems - Mercury-vapor air pollution control system for use in mercury-cell chlorine plants developed	R	Nov	17	24
Envirogenics Co. - DDT coatings degrades	N	Aug	4	33
Pilot plant will remove even the traces of DDT from industrial waste waters	N	Aug	4	33
Envirotech - Buell Div. - pollution equipment at Chemshow	Dec	8	41	
Elmco Processing Machinery Div. - centrifuge designs aimed at sludge dewatering	Dec	15	37	
ElmPAS (Elmco Phosphorus Adsorption System) demonstrated	Oct	13	66	
Forms 50-50 venture with Sumitomo to make and market water treatment systems and industrial waste water processing equipment in Japan, S. Korea and Taiwan	R	Sept	1	16
Equity Research Associates - international sulfur markets; Canada, France, Mexico and Poland agree to ration sulfur sales	N	Sept	15	25
Erba, Carlo Sp A - Montedison acquires control	R	Dec	1	21
Ericsson Chemical Services - nuclear ship "Savannah" may transport Rurto Rican chemicals or may become museum	Oct	27	21	
Essex Chemical - contract to Chemico for sulfuric acid plant at Rumford, R.I.	R	Sept	1	10

Sulfuric acid plant in Newark Shuts down for several hours due to storm Doria	Sept	8	15	
Esso - Humble testing customer reaction to a new trademark, EXXON	N	Sept	29	17
Esso (Australia) - ethane pipeline across Port Phillip Bay, Australia, delayed	N	July	7	40
Esso-BHP - acquires all Cresco's land and buildings at Westernport, Victoria	N	July	14	40
Esso Chemical Eastern - Laibe, John, new president; Connecticut Yankee tackles the Far Eastern market	July	21	58	
Esso Research & Engineering - separation technique adapted for use in blood oxygenation	Sept	22	69	
Study aimed at reducing nitrogen oxide emissions from jet aircraft by modifying the fuel	N	Aug	4	34
Establecimientos Lauzier de Mexico - acquired by Cooper Labs	Sept	1	10	
Estee Lauder - Natural cosmetics will make solid market gains	Dec	22	36	
Ethyl Corp. - Gulf Coast ethylene plant may not be built	N	Nov	17	17
Kellogg hired to begin study of ethylene production facilities at chemical manufacturing plant on the Houston Ship Channel	N	Sept	8	9
Oil and gas business (table)	July	7	12	
Sales and earnings in '71	July	7	14	
Ethylene Plastique - minority holding in Venezuelan LDPE plant	N	Oct	20	31
Eurosyndicat Investment Research Bureau - profits fall for Europe's chemical giants; ICI bucks trend (table)	Oct	27	51	

## F

FBA Pharmaceuticals - Bayer merging six wholly owned subsidiaries	Dec	8	18	
FMC Corp. - American Viscose Div. - Fiber producers seek price increases under Phase II guidelines (chart)	Dec	8	17	
American Viscose Div. rayon prices	N	Dec	22	27
American Viscose will build plant to textile polyester filament yarns for warp knit and texturized fabrics at Radford, Va.	R	Oct	27	21
Chlor-Chem Ltd. see under name				
Coal gasification: shortage of n-g spurs coal gasification development	Oct	27	33	
Coal gasification plant, commercial-scale, will be built	Sept	1	9	
Consortium will be formed	N	Sept	8	40
Foster Grant and FMC talking merger R Oct 6-15	Oct	13	28	
Merger discussions called off	R	Nov	17	24
Green River, Wyo., soda ash expansion N July 7-33	Oct	20	22	
Proposed \$75-million public offering of 30-year debentures	Sept	22	22	
Soda ash prices	N	Dec	8	29
Sodium sesquicarbonate prices	N	July	21	41
Fabricaciones Militares - Petroquimica Bahia Blanca see under name				
Familian Corp. - acquisition of Whittaker's Kelly Pipe Div.	R	July	7	15
Farbenfabriken Bayer AG - Bayer Pharma Jugoslavija joint venture	Sept	15	24	
Divisions cut this year; nine-month sales and earnings	N	Dec	15	35
Merging six wholly owned subsidiaries to give it a stronger marketing and financial clout	Dec	8	18	
Phenothate, DDT substitute	Aug	4	36	
Sales and earnings: '71 first half	N	Sept	1	13
8 months in '71	N	Nov	3	43
'71 profits slide (table)	Oct	27	51	
Toluene diisocyanate plant in Brazil proposed	Dec	8	26	
Up goes mark, down go German profits - report (charts)	Sept	22	33	
World plastics markets	N	Sept	29	37
Farbwerke Hoechst AG - calcium cyanamide production dropped	N	July	7	40
Entering industrial clothes rental business - joint venture Miet-Textil	N	July	21	35
Joint ventures with oil producing nations considered; also research partnerships with chemical producers at home and abroad	N	Oct	13	31
Plastics dispersion unit at Ikeja, Nigeria	R	Dec	8	28
Polyester fiber plants' working hours reduced	R	Dec	1	21
Protein-from-oil process to be developed under German Science Ministry program	Dec	1	43	
Sales and earnings, first 8 months of '71	N	Oct	6	19
'71 profits slide (table)	N	Nov	3	43
Soc. Polimeros de Mexico see under name	Nov	24	43	
Technical cooperation agreement with Russia	N	Nov	3	17
Technology for Mitsui's epoxy resin plant	R	Nov	3	17
Up goes mark, down go German profits - report (charts)	Sept	22	33	
World plastics markets	N	Sept	29	37
Farnitalia - Montedison acquires full ownership	N	Dec	22	19
Farmland Industries - Celanese's ChemStor, acetic propionic acid mix for grain preservative to be marketed N Sept 8-25	Oct	6	50	
Phosphoric acid plant near Lakeland, Fla., onstream late '71	R	Sept	15	18

Plant credits isothermal reactor with a single 300-hp. agitator for savings . . . N	Sept	15	35	Merger discussions called off . . . . . R	Nov	17	24	Georgia-Pacific - Baton Rouge workers laid off during construction slowdown band together to win contract maintenance jobs away from AFL-CIO . . . . .	Sept	1	42
Phosphoric and superphosphoric acid plant near Green Bay, Fla. planned . . . R	Aug	11	10	Foster Wheeler - Contractors predict '72 upturn (chart) . . . . .	July	28	44	Congressman wants mercury users to share abatement secrets: G-P offers information to explore for petroleum and natural gas in Ark. and La. (table) . . . . .	July	14	16
Farnsteel - chemical vapor-deposition technique to clad process hardware with tantalum developed . . . . . N	Dec	1	43	Engineering for Barazilian melamine plant . . . . . R	Sept	15	24	Research project aimed at getting mercury out of a chlorine-caustic plant's waste sludge . . . . . N	July	14	10
Furukawa Electric - first Japanese firm to export fabricated nuclear fuel; agreement with the Pakistani AEC . . . . . N	Aug	18	87	Licensing rights to Tennessee Eastman's TPA and DMT technology obtained . . . N	Nov	17	65	Gervais-Danone - gelling agents find a new market in frozen desserts in France . . . . .	Aug	18	43
Federal Pacific Electric - merger with U.S. Smelting, Refining & Mining being considered . . . . . R	Nov	3	19	Yugoslavian contract for Pancevo complex . . . . .	Nov	17	35	Getty Oil - Delaware's air pollution regulations for sulfur dioxide emissions: company asks for more time to comply with Sept. 1 '73 deadline . . . . .	Oct	13	21
Federal Paper Board - leasing plant at Elkhart, Ind., to make folding cartons (table) . . . . .	July	14	14	Foxboro Co. - in-line blending unravels chemical mixing maze (flowsheets) . . . . .	Nov	24	35	Glaxo Group Ltd. - Beecham offers to buy company . . . . . R	Dec	15	33
Felton, S.A. Co. - plastic ski surface for practice slopes . . . . .	Aug	25	14	Freeport Minerals - Freeport Kaolin Div. develops process for surface-modified pigments, "OX" process . . . . .	Aug	11	35	Wilson asks U.K. government to examine Beechman's takeover bid . . . . . R	Dec	22	21
Ferrel Co. - Irish plant to make steel tire cord . . . . .	Sept	1	11	Oil and gas business (table) . . . . .	July	7	12	Glidden - N.Y. cites paint for lead content . . . . .	Dec	15	41
Ferguson, H.K. Co. - contractors predict '72 upturn (chart) . . . . .	Sept	8	22	Friedrich Uhde - protein-from-oil process to be developed under German Science Ministry program . . . . . N	Dec	1	43	Paint remover sales . . . . .	Oct	20	65
Fertilizantes Fosfatados Mexicanos - PASCO will sell its interest to Financiera Banamex . . . . . R	July	28	44	Russian VC monomer plant will use U.S. technology . . . . . N	Sept	8	19	Glucides & Derives - renamed Melle-Bezon . . . . . R	Oct	20	30
Fertilizer and Chemicals Travancore - Cochran plant expected onstream in Sept. . . . .	Dec	15	33	Fuller, H.B. Co. - Multi-Clean Products Div. - scrubbing brush impregnated with silicon carbide called Poly-Grit . . . . .	Nov	24	31	Goodrich, B.F. Chemical - Ashe, A.J., vice-president: What chemical makers want after the freeze . . . . .	Sept	15	15
Fertilizer Corp. of India - nitrogenous and phosphatic materials fertilizer expansions . . . . .	July	21	29	<b>G</b>							
Technology for India's first sodium nitrite plant . . . . .	July	21	33								
Fiber Industries Ltd. - to acquire interest in Millhaven Fibres . . . . .	July	7	41	GAF Corp. - calisite operation at Gloucester City, N.J., to be disposed of . . . . .	Oct	20	22	Goodrich N Oct 6-9 . . . . . R	Dec	1	21
Fibras Acrilicas - acrylic fiber plant in Mexico . . . . . R	Oct	27	19	Ethylene oxide unit at Linden, N.J., closing . . . . . N	Nov	10	13	Interdisciplinary research (table) . . . . .	Aug	25	43
Fibreboard Corp. - issues stock for Round Prairie Lumber Co. (table) . . . . .	July	14	14	Industrial Photo Div.: Leibowitz says silver systems that go into sensitized goods for the photographic market are still tops . . . . .	Nov	24	28	PVC use in construction will grow sharply during the '70s . . . . . N	July	14	33
Sales and earnings - third-quarter estimated . . . . .	Oct	13	28	Moran, Juliette: A U.S. executive who reads Proust - in French . . . . .	Aug	18	104	Selling 20% of its ownership in Geon de Mexico to Mexican interests . . . . . R	Sept	1	16
Fields Plastics & Chemicals - earnings for fiscal '71 . . . . .	July	14	15	OCAW Local 3-217 in Chattanooga, Tenn., new contract . . . . .	Aug	11	12	Venezuelan vinyl chloride plant planned . . . . . N	Aug	25	20
Filtrol Corp. - court decision vacates the injunction barring Slick from exercising its 50.7% stock ownership in Filtrol . . . . . R	Nov	17	24	Suspends manufacture of liquid chlorine and caustic soda at Linden, N.J., plant because of mercury problems . . . . .	Oct	6	13	Goodrich, B.F. Tire Co. - Goodyear will sell its shares of Rubberfabrik Vredestein stock to Goodrich . . . . .	Oct	27	19
Filtrol drops antitrust suit against Slick; Slick must form a new corporation to take over the assets it sold to Pacific Vegetable Oil . . . . . R	Nov	24	19	Tenneco studying the possibility of a "25-mile acetylene line to GAF at Texas City" - sodium bichromate, sulfur dioxide unit for India . . . . . N	Dec	22	31	Thomas, "Pen": Goodrich considers him a "real winner", who will move the company ahead . . . . .	Sept	22	23
Slick officers fill FC posts. Is merger in the wind? . . . . .	Dec	8	10	Gas del Estado - Petroquimica Bahia Blanca see under name . . . . .	Sept	15	23	Can "Gray Fox" put bounce into tire maker? . . . . .	Dec	15	56
Financiera Banamex - PASCO's interest in Fertilizantes Fosfatados Mexicanos and Cia. San Noe to be bought . . . . . R	Dec	15	33	Gascarb see Productora de Gas Carbonica Gazcoean - alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms . . . . .	Dec	22	16	Goodyear Tire & Rubber Co. - FRB authorizes company to continue as one-bank holding company . . . . . R	Dec	15	22
Finco SpA - ethylene-vinyl acetate criss-cross strips lengthen ski season near Bergamo, Italy . . . . .	Sept	1	11	Gelsenberg AG - Phrinx nylon and polyester plant expansion . . . . . R	Aug	4	19	Patent fight: Porter Co. wins dispute with Goodyear over patent on a unique flexible hose for auto radiators . . . . . N	Oct	27	25
Finnish Peroxides - hydrogen peroxide plant; Finns take petrochemical plunge (table) . . . . .	Aug	4	17	Protein-from-oil process to be developed under German Science Ministry program . . . . . N	Dec	1	43	Plastic film prices . . . . . N	July	21	41
Firestone Tire & Rubber - debentures offering . . . . . R	Oct	6	15	GEMS-TV (Graduate Engineering, Management and Science Instructional Television) - closed-circuit TV helps researchers keep up with new technology . . . . .	Nov	10	71	Porter Corp. asks for a finding that imports of styrene-butadiene rubber by Goodyear of Canada be considered dumping of the material by its Japanese producer . . . . . N	Sept	1	33
Dividend increase cancelled . . . . . N	Dec	25	9	General Battery - lead smelting plant in Reading, Pa. . . . . R	Sept	29	24	Rubber Workers turn down company bid to restore eight-hour day . . . . .	July	7	16
Dividend boosted . . . . . R	Dec	22	17	General Electric Co. - Aircraft Engine Div. expects to lay off 7,000 persons by early '72 . . . . . R	Aug	11	10	Rubberfabrik Vredestein's stock to be sold to Goodrich . . . . .	Oct	27	19
FTC challenges ads . . . . .	Sept	8	12	GE-MOV metal oxide varistors - new family of semiconductors . . . . .	Dec	22	31	URW Local 232 in Toronto, Ont., agrees on a new contract . . . . .	Sept	22	24
Firestone, Raymond favors greater domestic productivity rather than trade barriers as an answer to growing imports . . . . .	Nov	24	17	Management changes: Charles Reed moves up to senior v-p; Rueben Gutoff now v-p and group executive of Components and Materials Group; John Welch will head new Chemical Div. . . . . N	Aug	25	9	Grace, W. R. & Co. - Borg Services acquired by Atlas McAlpine . . . . . R	Nov	10	87
Rubber Workers turn down company bid to restore eight-hour day . . . . .	July	7	16	Nitration: new process for milder nitrations . . . . .	Nov	24	42	Chemical hiring: no pickup in '72 (chart) . . . . .	Nov	3	20
Sales and earnings in '71 . . . . .	July	7	14	Pennsylvania being pressured for some kind of corporate tax relief . . . . . N	Aug	18	18	Construction Products Div. - fireproofing coatings for steel . . . . .	Aug	11	19
Nine-month earnings . . . . .	Sept	1	9	Top CPI firms threaten to seek greener tax pastures . . . . .	Sept	29	39	Cresco Fertilizers see under name . . . . .			
Fisons Fertilizers - antidumping duties on fertilizer imports asked . . . . . N	Nov	3	23	Reed, Charles, senior v-p: The man behind the company's most important chemical progress . . . . .	Sept	15	48	Davison Chemical Div. has world-wide license to Purification Sciences' plate-type generator . . . . .	Nov	3	55
Chlor-Chem Ltd. see under name . . . . .				Reprocessing plant will use Aquafleur process (flowsheet) . . . . .	Aug	18	91	Davison Chemical Div. offers new, compact air-cooled ozone generators in modular arrangement . . . . . N	Oct	6	48
Fertilizer information to be shared with ICI and Shellstar . . . . . N	Nov	10	27	Silicone resin, rubbers, prices . . . . . N	July	21	41	How money managers protect companies during monetary crises . . . . .	Nov	17	55
Florida Gas - stock offering . . . . . R	Aug	11	10	Thermoplastic polyesters, Valox, offered . . . . . N	Oct	6	48	Offers up to \$17 million for Mr. Gasket, auto-parts maker . . . . .	July	14	14
Fluor Corp. - licenses process to recover Claus unit tail gas . . . . .	Aug	18	88	General Foods - cooking bag-plus-seasoning product, Roast'n Boast . . . . . N	Oct	27	29	Oil and gas business (table) . . . . .	July	7	12
Lurgi plant to make gas equivalent to natural gas studied by new group . . . . . N	Nov	3	51	General Mills - sales and earnings July 11-15 . . . . .	Sept	1	9	Preparing a new process to make newsprint from bagasse . . . . .	Sept	29	21
Fluor Utah Engineers & Constructors - contractors predict '72 upturn (chart) . . . . .	July	28	44	General Motors - engineers find national air quality standards are too restrictive . . . . . N	July	7	27	Stock offering . . . . . N	Oct	20	17
Foam-Lite Plastics Co. - acquired by Inland Container (table) . . . . .	July	14	14	Plastics in '71 models - No big gains; auto makers ask suppliers to roll back prices to '70 levels . . . . .	Sept	15	41	Vermiculite mill at Libby, Mont. . . . .	Aug	4	12
Ford, Bacon & Davis - contract for Texaco's sulfur recovery plant at Pointe-a-Pierre, Trinidad . . . . . R	Sept	8	16	Turbine engines catch on in trucks and autos, could boost demand for synthetic lubricants . . . . .	Oct	27	27	Graham Magnetics - Cobaloy, a metallic alloy for tapes . . . . .	July	7	36
Licenses process to recover Claus unit tail gas . . . . . N	Aug	18	88	General Printing & Publishing Co. - acquired by Diamond International (table) . . . . .	July	14	14	Grand Sheet Metal Products - acquires urethane foam business from Diamond Shamrock . . . . . R	Dec	22	17
Ford Motor Co. - Englehard Industries' PTX exhaust gas purifiers to be in all cars for sale in California in 1974 Aug 11-16 . . . . . N	Dec	15	39	General Tire - British court upholds G's suit against British Firestone subsidiary on patent on tire treads made from oil-extended rubber . . . . . N	Aug	11	39	Great Lakes Chemical - El Dorado, Ark., OCAW members replaced during a strike that started 14 months ago seek to return to work, citing compliance with the Nixon request . . . . .	Sept	8	15
Glass-fiber-reinforced polypropylene fender liner . . . . .	Sept	15	41	Geon de Mexico - Goodrich selling 20% of its ownership to Mexican interests . . . . . R	Sept	1	16	El Dorado, Ark. plant . . . . .	Oct	20	22
New "clean" engine doesn't measure up to Nixon's plug . . . . .	Oct	6	12					Grefco - Dicalite Div. - perlite filter aid and filler plant at Crawfordsville, Ind. . . . . R	July	14	16
Proposed safety car could broaden outlets for plastics, fibers . . . . .	Aug	4	10					Grimm, W. T. & Co. - merger rate slowing study shows . . . . .	Oct	13	24
Supreme Court will decide whether the government can, in a divestiture suit, forbid a company from using its own resources to move into a new product area . . . . .	Oct	27	20					Mergers and acquisitions report . . . . . N	July	7	9
Fosco Minsep, Ltd. - African nickel-copper development; stock transactions must be ironed out first . . . . .	Aug	4	11					Grow Chemical - Banks: Credit will enable company to implement our long-range growth plans . . . . .	Aug	4	11
Foster Grant - Ashland Oil acquisition called off . . . . . R	Oct	6	15					Grow's goal: cash in on coatings . . . . .	July	7	20
FMC and FG talking merger R Oct 6-15 . . . . .	Oct	13	28					Sales and earnings in '70 . . . . .	Sept	1	9



Guardsman Chemical Coatings - Super-finishes thermosetting coatings bid for furniture market	Dec	8	31
Gulf + Western - Daddario, E., at NAM calls for a national position in support of technology and establishment of a "definitive national science policy"	Nov	17	22
Gulf Coast Waste Disposal Authority - will take over Champion Paper treatment plant	Sept	1	43
Gulf Energy & Environmental Systems - nuclear research reactor fuel provides several times the useful life span of previous fuels	July	7	27
Gulf General Atomic - Tokomak not perfectly circular and it is this imperfection that results in heat loss, says scientists	July	14	23
Gulf Oil Corp. - alkylation unit at its Girard Point, Pa., complex	Dec	8	19
Dorsey - Diversifying, but only in energy and closely related activities	Nov	10	18
Ethylene project still on the active list	Nov	17	17
Netherlands - Rozenburg order to close new ethylene plant appealed	Aug	25	20
Gulf may have to spend \$1 million to lessen noise and optical pollution problems	Sept	8	19
Partnership with United Nuclear new joint venture, Gulf United Nuclear Fuels Corp.	July	14	15
Gulf Oil Canada - Chemical operations shut down sparks interest in the country's plastics industry	Oct	6	9
Goodrich interests in buying PVC units	Dec	1	21
N Oct 9-B	Dec	1	21
McAfee - "Disastrously low profitability" leads to chemical cutbacks	Aug	25	13
Shawinigan complex will begin shutting early next month	Dec	1	21
Gulf Resources & Chemical - Sales and earnings in '71	July	7	14
Gulf South Research Institute - process for applying reverse osmosis to the refining of a petrochemical waste stream	Dec	8	42
Gulf United Nuclear Fuels Corp. - formed by Gulf Oil and United Nuclear	July	14	15
Gulfport Ceresitong Co. - Crown Zellerbach issues stock (table)	July	14	14
Gwalior Rayon Silk - Caustic soda plant at Nagda, India	Sept	22	48

## H

Haber Instruments - Electro-Molecular Propulsion, high-voltage chemical process	Aug	4	34
Haesle - joint venture to market pharmaceuticals in Sweden	Oct	20	30
Hagie Mfg. Co. - machine rolls Polin-8 onto corn tassels	Sept	8	37
Halcon Computer Technologies, Inc. - engineering companies are selling computer services to outsiders	Sept	8	35
Haldor Topsoe - ammonia plants with 3,000-ton/day reactors are technically feasible	Sept	8	40
Catalysts joint venture	Dec	8	19
Hall, Howard & Co. - proteins add muscle to toiletries and cosmetics	Aug	4	21
Hanna Mining - PP unit for Sao Paulo proposed	Dec	8	26
Harfluor Corp. - hydrofluoric acid processes using waste recovered from phosphate fertilizer plants	July	14	34
Harris Paint - N.Y. cites paint for lead content	Dec	15	41
Harshaw Chemical - hydrofluoric acid capacity boost (chart)	July	14	34
Hartline Products - de-icer markets	Nov	24	31
Harvey Aluminum - dividends cut	Sept	1	8
Hatco - plastic film prices	July	21	41
Hemijiska Industrija Pancevo - Pancevo complex planned	Nov	17	35
Henkel, Inc. - new name for Standard Chemical Products	Sept	29	24
Henkel International - technical cooperation agreement with Russia	Nov	24	43
Hercoform Marketing - building 50 modular homes in Macon, Ga.	Sept	1	10
Hercules Inc. - AWT Systems Inc. see under name			
Attempt to blow up the explosives plant near Kenil, N.J., thwarted	Nov	17	24
Brown - He's forecasting at least a 20% increase in industry profits	Oct	27	19
Brunswick, Ga. naval stores plant: cleaning up pollution problems	Aug	25	19
Chemical hiring - no pickup in '72 (chart)	Nov	3	20
Georgia turns down permanent permit for use of coastal Marshlands to dump excess dirt from Brunswick, Ga., operations	July	28	18
Hercoform Marketing see under name			
How money managers protect companies during monetary crises	Nov	17	55
Methanol prices	Nov	6	43
Montedison and Hercules agree to exchange research information on agricultural chemicals	July	28	15

NABI agreement - guarantees five-year loan of \$1.5-million to NABI, reserves warrants to purchase 50% of total outstanding NABI shares	Oct	20	17
'Outside' directors are 'in'	Aug	18	57
Radford, Va., gunpowder preblending plant explosion	Sept	8	16
Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31
Terephthalic acid plant at Wilmington, N.C. planned	Nov	11	6
Venture-capital activities	July	28	25
Warehouses (two) destroyed by fire near South River, N.J.	July	7	15
Hexagon Laboratories - amphetamine production quotas set by the Justice Dept.	Dec	8	14
Hoechst Fibers - new name for Hystron Fibers	Nov	3	17
Hoechst-Udde - methanol and formaldehyde plant for India	Sept	15	23
Hoerner-Waldorf - issues stock for Inter-mountain Co. (table)	July	14	14
Hollandsche Draad-en Kabelfabriek, N.V. - degradable mulch	Dec	8	45
Honeywell - slashes prices of government purchases, to win a DOD contract	Oct	27	25
Hooker Chemical - acquisition of the evaporator systems business of Zarembo	July	7	15
Baker Chemical would buy the stock interest in Hooker Farm Chemical of Taft, Inc.	Nov	24	17
Closed-circuit TV helps researchers keep up with new technology	Nov	10	71
Messing, Morris: He started at bottom - now helps others move up	Sept	1	48
Potassium chloride plant in India planned	Sept	15	23
Trichloroethylene production at Niagara Falls, N.Y. will phase out by January	Dec	8	19
Willers, Thomas resigns: will be succeeded by Morris Messing	Sept	1	8
Hooker Farm Chemicals of Taft, Inc. - Baker Chemical would buy the stock interest	Nov	24	17
Houdry Chemical - Delaware okays construction of regional waste collection and treatment system in Deepwater, N.J.	Oct	13	29
Houston Natural Gas - Oasis Pipe Line Co. see under name			
Texas natural gas pipeline system is being expanded 333 miles	July	21	13
Houston Oil & Minerals - purchases oil and gas properties from Allied Chemical and Occidental Petroleum	Dec	22	17
Howard & Sons - phthalate plasticizer units at Cornwall, Ont., expansion	Dec	1	21
Howard Paper Mills - Harrison, Ward will set up HPM	Dec	1	18
Hudson, John & Co. - "Hudson Stream" plans to discharge 375,000 tons/year of industrial wastes off English shore have been delayed by outcries over pollution (map)	July	7	24
Huels AG - sales and earnings in '71	July	7	40
Humble Oil - Baton Rouge, La., refinery will add sulfur recovery equipment	Aug	25	16
Testing customer reaction to a new trademark, EXXON	Sept	29	17
Humphrey Chemical - Baytown, Tex., plant will produce corrosion inhibitors and epoxy resin hardening agent	Oct	20	23
Humphreys & Glasgow - contract for Indian urea plant	July	21	29
Hystron Fibers - changes name to Hoechst Fibers	Nov	3	17

## I

INA - petrochemical complex at Rijeka, Yugoslavia	Nov	17	35
IRC Fibers Co. - rayon tire-cord yarn prices	Aug	18	73
ITT Levitt - sewage from a new housing development will be processed to drinking water quality in a new packaged physical-chemical waste treatment system	July	28	39
Sewage plant, that looks like a home, will convert development's wastes into an ash and water of potable standard	Aug	4	23
IVP - Polimeros del Lago see under name			
Idemitsu Petrochemical - ethylene plant at Tokuyama will use Kellogg technology	Sept	1	16
Ilford - Ciba-Geigy borrowing \$24 million for expansion of its U.K. interests	July	7	40
Ilkion Corp. - "disintegrating bottle" that empties when empty	July	21	13
Technical for injection molding of bottles by hydroxypropyl cellulose	Dec	8	49
Imperial Chemical Industries - acquisition of four texturizing companies planned	Sept	22	51
N Aug 11-31	Oct	20	69
Acrylonitrile from propane process	Nov	3	23
Antidumping duties on fertilizer imports asked	Nov	3	23
Atlas Chemical merger agreement is final	July	28	18
CIL taken out of fibers	July	7	41
Chemical and fiber companies avoiding strife in Northern Ireland	Sept	8	24

Domestic operations being cut as part of cost-cutting program	Dec	22	21
Dual-catalyst system for autos developed	Nov	24	33
Equipment for Hungarian PE plant	Nov	24	21
Fertilizer information to be shared with Fisons and Shellstar	Nov	10	27
Formaldehyde process for BIP's plant at Oldbury	July	28	15
Imperial Metal Industries, Ltd. see under name			
Joint venture in Mihara, Japan, to produce ICI's bromoxone weed killer	Sept	29	27
'71 profit pickup (table)	Oct	27	51
Nylon operations drops 1,450 jobs	Aug	4	20
Pharmaceuticals plant at Cheshire, England, expansion completed	Sept	29	32
Plans manufacturing units in France, Germany and Holland	Nov	24	43
Plans to raise \$36 million on 8% 15-year sterling/Deutsche mark bonds	Nov	4	20
Polyester film capacity at Dumfries, Scotland, will be boosted	July	28	15
Sales and earnings, first-half '71	Sept	15	21
Seven-man mission to Peking	Dec	1	21
Technology for Russian polyester fiber plant	July	21	33
U.K. metrics advance	Oct	20	29
U.K. rocked by ICI profit dip, gloomy outlook for industry growth	Dec	8	27
Imperial Chemical Industries of Australia & New Zealand - acquires Cresco's nitric acid and ammonium nitrate units	July	14	40
Consolidated Fertilizers Ltd. see under name			
Sales and earnings for 1971	Dec	15	32
Imperial Metal Industries, Ltd. - titanium anode for chlorine to be installed at Olin's Augusta, Ga. plant	Oct	27	37
Imperial Oil - refinery at Dartmouth, Nova Scotia, expansion contract goes to Lummu	Sept	8	16
Imperial Paper - tentative agreement for merger into Collins & Aikman Corp. (table)	July	14	14
Acquisition completed	Nov	3	19
Indian Farmers Fertiliser Cooperative - contracts for urea plant at Kalol	July	21	29
Indian Head Inc. - glass container producer diversifying into plastics	Dec	15	17
Industrial Chemicals Co. - Managing director C.P. Cunningham: On weekends 'Mr. Detergent' goes fishing	Nov	24	56
Industrias Quimicas Du Pont - Chile asks for nationalization of industrial explosives plant	Nov	3	17
Industrias Resistol S.A. (IRSA) - formed by Monsanto-Resistol S.A. merger	July	7	9
Infrared Surveys, Inc. - infrared scanning technique	Nov	17	66
Inland Container Co - acquisition of Foam-Lite Plastics Co. (table)	July	14	14
Inland Steel - coal strike eases coal production cut back at Indiana Harbor, Ind.	Nov	10	13
Steel strike's toll	Aug	11	12
Inmont Corp. - superfinishes: thermosetting coatings bid for furniture market	Dec	8	31
Institut Français du Pétrole - process to recover Claus unit tail gas licensed to five U.S. firms	Aug	18	88
Institute of Gas Technology - coal gasification: pilot plant near Chicago is first to be completed, will make gas within two months	Oct	27	33
Instituto Venezolano de Petroquímica - vinyl chloride plant at El Tablazo planned	Aug	25	20
Intermountain Co. - Hoerner-Waldorf issues stock (table)	July	14	14
International Chemical & Nuclear Corp. - acquires J. M. Marsam	July	21	15
Buys M. Woelm	Dec	15	33
Panic, Milan: Yugoslav bicycle champ a big winner in U.S. drug industry	Dec	22	40
International Commodity Export Corp. - fertilizer exports ready to end two-year slump (charts)	Sept	15	27
International Finance Corp. - loan to Celanese Mexicana	Sept	15	23
International Mergers Service A.G. - multinational company marriage brokers formed	Nov	24	13
International Minerals & Chemical Co. - NHD research	July	21	21
Potash prices	Dec	22	27
Sales and earnings growth "ties in its two major and basic products - phosphate and potash" says White	Oct	13	26
International Nickel of Canada - mining operations cut, an additional 15%, at Sudbury, Ont., and Thompson, Man.	Nov	10	19
Nickel production in Canada trimmed; copper prices cut	Dec	1	29
Softness in nickel market causes Inco to cut back	Aug	18	25
International Paint - N.Y. cites paint for lead content	Dec	15	41
International Paper - Phase II: Queuing for price hikes	Dec	1	17
Stock offering will be exchangeable for shares of C.R. Bard	Oct	20	23



Ticonderoga mill doesn't smelt: Pollution control to prevent the characteristic kraft-mill odor and treat plant effluent	Dec	1	41
Ticonderoga, N.Y. pulp and paper mill to be dedicated	R Oct	13	29
International Synthetic Rubber Co. - ABS and carboxylated styrene-butadiene plant	R July	28	15
International Systems & Controls Corp. - Black, Sivalis & Bryson see under name	Pritchard, J.F. Co. see under name		
Intracolor Corp. - acquisition by Crompton Knowles	R Aug	4	12
Intratex Gas - Texas natural gas pipeline system is being expanded 333 miles	July	21	13
Inventa - process for Turkish caprolactam plant	R Sept	1	16
Synthetic fibers plant for India	Sept	15	23
Inversiones ABS - Productora de gas Carbonica see under name			
Iowa Manufacturing - merger with Raytheon okayed	R Dec	22	17
Iowa Steel and Iron - Raytheon and Iowa Manufacturing merger okayed	R Dec	22	17
Israel Central Trade & Investment Co. - Israel Chemical Fibers see under name			
Israel Chemical Fibers - acrylic fiber capacity to be doubled	R Sept	15	24
Itoh, C. & Co. - acrylic fiber joint venture in Mexico	R Oct	27	19
Itoh notes that U.S. exports to Japan would be reduced by an economic recession in his country	Nov	24	17
Technology for Algerian petrochemical complex	N Oct	20	31

## J

Japan Gasoline - Boston Gas' SNG plant will employ methane-rich gas process	N Oct	27	37
Japan Synthetic Rubber - technology for ANIC's plants	R Sept	22	48
Japanese Geon - Spanish butadiene plant will use Japanese process	R Aug	4	19
Jefferson Chemical Co., Inc. - three-for-one ammonia parity	Aug	4	32
- letter	Oct	6	5
Jefferson Land Development - Brown Co. acquiring 30% interest (table)	July	14	14
Johns-Manville - U.S. construction expenditures	R Aug	11	10
"Unity on asbestos" - Clearing the air - letter	Sept	29	15
Jugo Dispersia - PV acetate dispersion joint venture at Koper	Nov	17	35
Jugovinil - petrochemical complex at Rijeka, Yugoslavia	Nov	17	35
PVC plant at Kastel Sucurac, Yugoslavia	N July	28	29

## K

KNZ - granted an \$8-million loan for expansion	N Sept	29	27
Kaiser Aluminum & Chemical Corp. - deicers devised for highways	Nov	24	29
Fluorocarbons capacity at Gramercy, La., increased	July	14	15
Hydrofluoric acid capacity at Gramercy, La., boosted (chart)	July	14	34
Ravenswood, W. Va. aluminum potline will shut down temporarily	R Aug	25	16
Ravenswood, W. Va., works modernization completed	Nov	17	24
Will give up its 80% interest in Peru's Minera Bayovar	R Sept	22	48
Kalichemie - Engelhard has worldwide rights to BP's isomerization process	N Aug	11	40
Kamani Bros. - Carbon black unit in India	Sept	15	23
Kanagafuchi Spinning - epoxy resin plant at Chiba Works	R Nov	3	17
Kanematsu Goshu - Bolivian zinc deal off	N July	21	35
Kawecky Berylo Industries - merger with Molybdenum Corp. of America	Oct	6	12
Merger off	Dec	15	22
Kay Laboratories - Mallinckrodt acquires Serosonic Labs	N Aug	11	6
Keene Corp. - in-line blending unravels chemical mixing maze (flowsheets)	Nov	24	35
Kellogg, M.W. Co. - ammonia plants with 3,000-ton/day reactors are technically feasible	Sept	8	40
Conoco's fluid catalytic cracking and vapor recovery units to be revamped	R Aug	4	12
Consolidating its research and engineering development activities in Houston by mid-'72	N July	7	27
Contract for Indian ammonia unit	July	21	29
Contractors predict '72 upturn (chart)	July	28	44
Ethylene production study at Ethyl's plant on the Houston Ship Channel	N Sept	8	9
Kelplants: mixed integer programming is the key to a new liner program model	Sept 8-25		
Stripping unit to clean up steam condensate in ammonia plants offered	N July	21	49
Substitute natural gas technology cross-licensing arrangement with British Gas Council	N Aug	18	88
Technology for ethylene plant in Japan	R Sept	1	16

KemaNord - Denmark's first PVC plant	R July	28	15
Sales, profits, capital spending	Sept	29	32
Kendall Corp. - Merger proposals			
Colgate-Palmolive offers stock exchange	R Oct	20	23
Merger proposals from Tectron and Colgate-Palmolive being considered	Nov	3	17
Proposals rejected, but others are likely	Dec	1	18
Kenics Corp. - aerating device with no moving parts	Dec	8	41
Kenecott Copper - Chile's nationalization of U.S. copper operations: how much will Chile pay?	July	21	15
Washington takes dim view of Chile's decision not to compensate company	N Oct	20	17
Copper outlook dull	Dec	1	18
Mining and concentrating operations at Salt Lake City will be reduced	Nov	3	18
Petition asking reconsideration of a commission order requiring sale of the company's Peabody Coal unit turned down	R July	14	16
Wrangle with Puerto Rico over copper mining terms	Oct	27	17
Kern County Land Co. - L.A. court refuses rehearing on Kern stock case	R Dec	8	19
Kerr-McGee Chemical - agreement with OCAW includes wage hike	Aug	25	16
Ammonium perchlorate production stopped at Henderson, Nev.	N July	14	33
Titanium dioxide and paraffin prices	N Nov	10	61
Kimberly-Clark - issues stock for Brown-Bridge Mill (table)	July	14	14
Kinnaird Hill de Rohan & Young Ltd. - slurry pipelines have a big future in Australia	N Nov	17	65
Klean-Strip Co. - paint remover sales	Oct	20	65
Kobe Steel - acrylic fiber joint venture in Mexico	R Oct	27	19
Kolor Koter Corp. - Foam Away Paint	Oct	20	65
Remover sales	Oct	20	65
Koppers Cr. - agreement with OCAW includes wage hike	Aug	25	16
Coal strike agreement will lead to higher prices	Nov	24	16
Interdisciplinary research	Aug	25	43
Krebs & Co. - chlor-alkali plant for India	R Sept	15	24
Kunststoffwerke Hoechst - Huels and Veba acquire 50% interest	R Oct	20	30
Kuraray Co. Ltd. - propylene glycol process licensed to PPG	N Oct	27	37
Vinyl plant for North Korea	N Sept	22	51
Kymin - chlorine and phthalic anhydride plants planned as Finns take petrochemical plunge (table)	Aug	4	17

## L

La Compagnie des Eaux et de l'Ozone - Crane obtains license to the Otto plate-type generator	Nov	3	55
L'Air Liquide - acquires a 50% interest in AGA Gas; Deutsche L'Air Liquide Edelgas will, in turn, become a subsidiary of AGA Gas	Sept	15	23
Joins Rotterdam-Antwerp pipeline complex	N Dec	1	29
Profit report	R Nov	3	17
Lambert Industrial Assn. - Robinson, Eric, develops manganese-based catalyst to control auto exhaust pollutants	N Sept	8	40
Lek - Bayer Pharma Jugoslavia joint venture	R Sept	15	24
LePage's Ltd. - wood stains business bought from Monsanto	R Dec	1	21
Leslie Salt - Leslie Foods Div., Sweden's consumer ombudsman rules that contents given in ounces, rather than grams, in an odd-shaped bottle might be misleading	Sept	15	45
Negotiating to sell the assets of its Leslie Salt & Chemical Div. and its Food Div. to California Hawaiian Sugar; lands in San Francisco Bay area to Mobil Oil Estates	R Dec	1	18
Lever Brothers - argues for a uniform national limit on detergent phosphate content	N Nov	3	23
Florida's Dade County ordinance: company will substitute sodium carbonate in detergents; will reformulate Wisk and Cold Water All	N Dec	15	27
Toothpaste makers deny Nader's charges that stannous fluoride in toothpaste stains teeth	July	21	13
Libbey-Owens-Ford - contract negotiations "bargaining was complicated by the present wage-price freeze"	Nov	3	21
United Glass and Ceramic Workers of North America gets three-year contract	R Dec	15	22
Licensesintorg - Russia is offering licenses on some of its petrochemical technology	N July	14	23
Technology for the production of caprolactam by oxidation of cyclohexane license offered	N July	14	23
Lilly, Eli & Co. - American Cyanamid's controversy with ELC and Elizabeth Arden case to court	Sept	29	23

Lilly Industrial Coatings - Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31
Liquichimica Sud - petrochemical complex at Calabria, Italy	R July	7	45
Liquigas - negotiating to license synthetic protein technology from Dainippon Ink	R Nov	10	87
Normal paraffins plant in Sicily	R Nov	10	87
Little, Arthur D., Inc. - management research consultants team up in two new ventures to offer managed warehouses	Nov	3	49
Plastic recycling study	July	28	26
Project Threshold: 3-year, \$2-million industry-financed study launched to find ways to assure accuracy of air pollution measurements	Sept	15	29
Lone Star Gas - Gulf Coast ethylene plant may not be built	N Nov	17	17
Coastal States Gas merger talks	N July	7	9
Lonsa - metaldehyde trial to slow snail's pace	Nov	24	41
PVC plant in Denmark	R July	28	15
Louisville Chemical - maleic hydrazide dispute with Uniroyal: will the statute of limitations bolster Uniroyal's position?	Oct	27	25
Luminescence Technology - new luminescent fibers tackle optical, high-performance markets	Oct	13	83
Lummus Co. - British subsidiary gets contract for Chilean petrochemical complex	N Sept	15	21
Bruceton, Pa. unit to make pipeline gas using USBM's Synthene process	N July	21	49
Contract for Brooklyn Union Gas plant to convert naphtha into natural gas	R Aug	25	16
Engineering companies are selling computer services to outsiders	Sept	8	35
Pipeline-gas-from-natural-liquids plant for Alonquin SNG N Oct 20-69	N Oct	27	37
Pres. Orr says some \$400 billion must be invested over the next 15 years to satisfy the anticipated U.S. energy requirement	N Sept	22	73
SNG plant at Marysville, Mich. planned	Sept	1	9
Technology and engineering for Finnish projects	Aug	4	17
Lummus Co. Canada Ltd. - contract for expansion of Imperial Oil's refinery at Dartmouth, Nova Scotia	R Sept	8	16
Contract for Petrofina Canada's hydrogen plant at Pointe-Aux Trembles	R Sept	15	24
Lurgi - West German contracts canceled	N Dec	8	25

## M

Madras Fertilizers - Manali units on-stream	July	21	33
Magma Copper Corp. - copper pact coming	July	28	16
Maine Clean Fuels, Inc. - Maine environmentalists defeat proposed desulfurization project	Aug	4	12
Makhteshim Beersheba - Israel's pesticides industry banks heavily on know-how and export sales	July	14	43
Mallinckrodt Chemical Works - acquisition of Serosonic Laboratories will move company further into clinical diagnostic field	N Aug	11	6
Executive realignments: H. Hays continues as chairman and chief executive officer; S. Anonsen moves up as president and chief operating officer; H. Brinner becomes vice-chairman and chief administrative officer	N Nov	3	13
Washine Div. - titanium tank truck	N Nov	17	51
Manpower, Inc. - survey on employment needs	R July	21	15
Marathon Oil - isoprene process licensing rights granted to Vulcan-Cincinnati	N Aug	11	40
Marbon N.V. - Amsterdam plant practically destroyed by explosion and fire: environmentalists protesting rebuilding of plant	N Aug	25	20
Partly back in operation by next month	N Sept	29	27
Marsam, J.M. - acquired by International Chemical & Nuclear	R July	21	15
Marshall, William E. Co. - Albright & Wilson selling its animal feed subsidiary to J. Bibby & Sons	N July	7	40
Maryland Cup Co. - Manchester, N.H., plant to produce injection-molding plastic containers, lids (table)	July	14	14
Maschinenfabrik Hennecke - Sells Russians a plant to produce urethane foam seat cushions and crash pads	Oct	20	29
Masonite Corp. - capital expenditure program to expand hardboard production	R July	21	15
Matthey Bishop - support system for platinum gauze catalyst for nitric acid plants	N July	28	39
McCorrack - bids vying for a share of the cooking market	N Oct	27	29
McDonnell Douglas - Malton, Ont. wing spar plant struck	Oct	20	21
McDonnell Douglas Automation - process engineering computer programs by a joint venture	N July	7	27

McKee, Arthur G. & Co. - contract for Monsanto Argentina's \$2-million expansion	R	Nov	24	21	Mitsubishi Rayon - joins Mitsubishi Petrochemical to form new marketing arm; Dia Acrylate for acrylic acid ester output	R	Sept	15	24	Monsanto Canada - wood adhesives operations sold to Westport Chemicals, and wood stains business to LePage's Ltd.	R	Dec	1	21		
Engineering companies are selling computer services to outsiders	Sept	8	35	Monsanto joint venture hopes to crack the Japanese nylon market	N	July	14	40	Monsanto Europe - reorganizing into four operating companies	R	Dec	22	21			
Macro Paper - joint plastic paper venture with Mitsui & Co. formed	Nov	17	17	Mitsui & Co. - electrolytic manganese dioxide plant at Cork, Ireland considered	N	Nov	10	27	Monsanto Mexicana - Latin American executives seek exemption from Nixon's import surcharge	N	Sept	15	21			
Medipharm - end-processing and packaging units acquired by Albert Pharma	R	Dec	8	28	Epoxy resin plant at Chiba Works	R	Nov	3	17	Resistol S. A. merger will create Mexico's third largest chemical company, Industrias Resistol S.A. (IRSA)	N	July	7	9		
Melamina Ultra - melamine plant in Brazil	R	Sept	15	24	Iran petrochemical complex planned	N	Aug	4	20	Monsanto Textiles Ltd. - Ireland acrylic fibers plant expansion delayed	R	Aug	4	19		
Melamine Chemicals - Baton Rouge workers laid off during construction slowdown band together to obstruct maintenance jobs away from AFL-CIO	Sept	1	42	Will build down-stream petrochemical plants in Iran, joint venture with NIPC	R	Oct	27	19	Montecatini-Edison - acquires control of Carlo Erba	R	Dec	1	21			
Melle-Bezon - Rhone-Poulenc will increase holdings in Soc. Melle-Bezon, transfer assets to Glucides & Derives, which will be renamed Melle-Bezon	R	Oct	20	30	Mitsui Petrochemical Industries - dimethyl terephthalate plant and terephthalic acid unit at Tarragona, Spain	R	Dec	8	28	Acquires full ownership of Rhodiatoce and Farmitalia from Rhone-Poulenc; will integrate Rhodiatoce, Polymer and Chaitillon	N	Dec	22	19		
Mennen Co. - Protein 21 shampoo	Aug	4	21	Japan gives approval for synthetic wood pulp plant at Chiba Works	R	Nov	3	17	Acrylonitrile plant in Italy	R	July	28	15			
Proteins add muscle to toiletries and cosmetics	Oct	20	23	Mitsui Toatsu Chemicals - plans to seek union agreement to make personnel cuts	N	Oct	27	43	Cefis pinpoints his problems	R	July	21	29			
Merck & Co. - dividends in doubt	Nov	17	22	Process for VCM for Rumania	R	Aug	4	19	Chaitillon see under name	Nov	24	27				
Knoppers' praise for multi-national corporations' boosting dollar inflow	Nov	17	22	Mobay Chemical - Bayer's top U.S. division	Dec	8	18	EPDM capacity to be tripled	Nov	24	27					
Rohm, Luther, at MCA meeting	Dec	1	16	Naftone, Inc. is not a chemical	R	Dec	8	18	Financial accounts have been turned over to the district attorney of Milan, following charges that the company had a "secret set of books"	N	July	7	39			
Sales and earnings - third-quarter '71	N	Oct	20	17	Nitric acid unit at New Martinsville, W. Va., explosion	R	Nov	17	24	Hercules and M-E agree to exchange research information on agricultural chemicals	R	July	28	15		
Merichem - cresylic acid capacity upped	R	Oct	13	29	Mobil Chemical - Kankakee, Ill., paint plant contract includes wage hike	Aug	25	16	'71 profits slide (table)	Oct	27	51				
Merit Associates - golf putter has head of injection-molded acetal	July	21	45	Superfinishes: thermosetting coatings bid for furniture market	Dec	8	31	Phenthoate, DDT substitute	Aug	4	36					
Metal Associates - withdrawing as supplier of metal anodes for chlor-alkali production	N	Dec	15	59	Mobil Oil - debentures offering	Sept	22	22	Polypropylene: key composition-of-matter patent won by Montedison but 13-year-old controversy still not settled	N	Dec	15	39			
Near-term future not bright	N	Dec	22	31	Delaware okays construction of regional waste collection and treatment system in Deepwater, N.J.	R	Oct	13	29	PVC plant at Kassel Sucurac, Yugoslavia	N	Nov	17	35		
Metabon Co. - Green, J. discusses aerosol production	Oct	20	66	Joint exploration venture off shore of Iran	R	Aug	11	10	N July 28-29	N	Nov	7	39			
Metanol-Metanol do Nordeste - Methanol plant at Camacari, Bahia, contract to Power-Gas	Dec	8	26	OCAW may bring action against MO in job safety dispute	Dec	8	19	Sales and earnings in '70	N	Aug	18	31				
Meyercood Co. - deal system, Roll-Mark, will boost consumption of decorated ceramic tile	Aug	25	51	Stock sale	R	Sept	8	16	First-half '71	N	Aug	18	31			
Michelin Rubber Co. - unions go global	July	14	17	Tavolares: Betting on refining, packaging, chemical coatings	Nov	24	19	TE, new tetrafluoroethylene-ethylene copolymer	N	Aug	11	39				
Midwest Oil - Standard Oil (Indiana) may acquire company and merge it with Amoco	R	Aug	4	12	Mobil Oil Estates, Ltd. - San Francisco Bay area land will be bought from Leslie Salt	R	Dec	1	18	Valerio, G. charged with misappropriating company funds	R	Dec	15	32		
Midwest directors turn thumbs down on merger	Aug	25	9	Moevs Co. - Polin-8 may solve the corn detasseling problem	Sept	8	37	Moore, Benjamin & Co. - N.Y. cites patent for lead content	Dec	15	41					
Midwest stockholders suing Standard for using "misleading scheme" to take control of Midwest	Oct	6	15	Molybdenum Corp. of America - merger with Kaweco Berylo Industries	Oct	6	12	Morrison Molded Fiber Glass Co. - pultruded plastics for construction	Dec	8	29					
Standard plans to offer stock exchange	Dec	22	17	Merger off	Dec	15	22	Morton Salt - de-icer markets	Nov	24	31					
Mietfinanz - joint venture with Hoechst, Miet-Textil, will rent industrial clothes	N	July	21	35	Monsanto Co. - ABS: Lustran ABS plastic at Addyston, O., expansion; plant at Antwerp, Belgium under construction	N	Sept	1	5	Mountain States Resources - Utah reserves low in sulfur content	Sept	29	51			
Milchem - acquired by Baker Oil Tools	R	July	14	16	ABS expansions at Addyston, O. and in Japan and Belgium (table)	Oct	20	23	Muller, Joseph Corp. - alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms	Dec	22	16				
Milhaven Fibres Ltd. - CIL sells interest to Chemcell and Fiber Industries	July	7	41	ABS markets (chart)	Aug	25	39	Multi-Minerals Ltd. - calcium phosphate plant in Canada	R	July	28	15				
Milmaster Oxy Corp. - Milano, Robert, chairman and chief executive officer: He'll take a hard look at his hometown, Milano, Robert receives SAACI's first Man-of-the-Year award	Aug	11	44	Chemical and fiber companies avoiding strife in Northern Ireland	Sept	8	24	Mundo Gas, S.A. - alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms	Dec	22	16					
Mine Safety Appliances - pollution control equipment at Chemchow	Oct	13	25	Coal strike forces curtailment of acrilan fiber production at Decatur, Ala.	N	Nov	10	13	Murphy Oil - Meriaux, La. and Superior, Wisc. refineries expansion	R	Aug	25	16			
Minera Bayer - Kaiser will give up its 80% interest	R	Sept	22	48	Computer programs available for license. Corporate management reshuffle will aid diversification and growth	Sept	29	24	N							
3M Co. - High-energy magnetic tapes sound off	July	7	36	Cunningham, C.P., managing director of Industrial Chemicals Co.: On week-ends "Mr. Detergent" goes fishing	Nov	24	56	NL Industries - antimony prices	N	July	21	41				
Ling, J.T., says industry is taking a bad rap on pollution	Aug	4	24	Devisers devised for runways	Nov	24	29	Titanium dioxide and parathion prices	N	Nov	10	61				
Newark, N.J. explosion caused by the ignition of vapors from cleaning solutions	Aug	4	11	Delaware okays construction of regional waste collection and treatment system in Deepwater, N.J.	R	Oct	13	29	Naftone, Inc. - becomes a division of Mobay Chemicals	R	July	14	16			
OCAW at Guin, Ala., signs three-year contract	Sept	22	24	Depreciating method for machinery and equipment being changed	N	Dec	15	17	Neco Chemical - Bott, Lawrence, new chairman and chief executive officer: He feels that ethics are as vital to a company as profits	Aug	4	40				
Polyester film makers count on new uses to spur sagging growth (chart)	Aug	18	67	Enviro-Chem Systems see under name Florida formulates tough rules to control Escambia Bay discharges	Nov	10	18	Stock offering	R	July	21	15				
Tartan synthetic turf: tussle over turf	Oct	13	24	Gorbett, George: MCA panel on occupational safety	Dec	1	16	Naptachimie - ethylene oxide capacity at Lanza upped	July	21	39					
Missouri Pacific - VCM tank cars explode as 18 cars of freight train derail in Houston	Oct	27	20	Israel Chemical Fibers see under name Japanese joint plastics venture	N	July	14	40	National Distillers and Chemical - U.S. Industrial Chemicals Co. division see under name							
Mr. Gasket Co. - Grace offers up to \$17 million for MGC, auto-parts maker	July	14	14	Japanese nylon joint venture	N	July	14	40	U.S.I. Europe see under name U.S.I. Far East see under name							
Mitsubishi Chemical Industries - Monsanto joint venture hopes to crack the Japanese nylon market	N	July	14	40	Kerley, James, vice-president: What chemical makers want after the freeze	Sept	15	15	National Gas Pipeline - two-year contracts with Phillips and Warren (and reportedly Mobil) under which NGP will pay as much as 4.9¢/gal. for ethane and 65¢/gal. for propane	N	Sept	22	59			
Niva, M., at NAM discusses R&D in Japan	Nov	17	22	Listed on the Belgian stock exchange	N	July	7	40	National Gypsum - counting on construction to spur sales and earnings in the next five years	Aug	18	27				
Sales and earnings, 6 months ended July 31	N	Oct	6	19	NFLAP calls for "moratorium" on artificial turf; company says demands will not affect sales of its AstroTurf	Oct	13	24	National Iranian Oil Co. - joint exploration venture off shore of Iran	R	Aug	11	10			
Mitsubishi Corp. - may participate in liquefaction unit in the Malaysia-Borneo area	N	Aug	18	31	Nylon prices move up	Aug	4	27	Petrochemical complex planned	N	Aug	4	20			
Mitsubishi Heavy Industries - Japan will be using locally developed know-how in several years	Dec	1	21	Oil and gas business (table)	July	7	12	National Iranian Petrochemical Co. - Mitsui will build down-stream petrochemical plant in Iran	R	Oct	27	19				
Mitsubishi Kakoki Kaisha - methanol plant at Camacari, Bahia	Dec	8	26	Patent Office reverses a '67 decision that awarded priority to Monsanto on use of 3,4-dichloropropionamide as a selective postemergence herbicide and awarded priority to Rohm & Haas	R	July	28	18	National Petrochemical - United							
Mitsubishi Metal Mining - copper smelting process is economical, pollution-free	Nov	24	33	Process for making cellulosic materials fire retardant	N	Aug	25	47	Polymers see under name							
Mitsubishi Monsanto Chemical - ABS expansion at Yokkaichi plant	N	Sept	1	5	Quaker Oats bought certain assets relating to development and manufacture of protein beverage products	R	Oct	27	21	National Starch & Chemical - Polin-8 may solve the corn detasseling problem	Sept	8	37			
Mitsubishi Petrochemicals - Japan will be using locally developed know-how in several years	Dec	1	21	Rubber chemicals plant at Antwerp, Belgium completed	R	July	28	18	Snack-food business a boom for starches	Nov	17	53				
Joins Mitsubishi Rayon to form new marketing arm; Dia Acrylate for acrylic acid ester output	R	Sept	15	24	Swiss subsidiary will borrow about \$12 million in Swiss francs to help finance the parent company's \$60-million Western European expansion program	N	July	14	40	National Steel - merger with Granite City Steel: Justice may ease up on anti-trust enforcement	N	July	21	9		
Refinery-petrochemical complex in Ireland planned	N	Nov	10	27	Turbine engines catch on in trucks and autos, could boost demand for synthetic lubricants	Oct	27	27	Naval Jelly Co. - protein powder for mending rips and holes in clothing upholstery and rugs is a new twist in chemical "sewing"	Sept	22	61				
Sales and earnings, first-half '71	N	Aug	18	31	Monsanto Argentina - contract to A. G. McKee & Co. for a \$2-million expansion	R	Nov	24	21	Niederlande Stickstoff Maatschappij - increases urea and ammonia capacity	R	Dec	22	21		
'Wood' from plastic?	Aug	25	44						Neste - spearheading Finland's entry into the petrochemicals arena (table)	Aug	4	17				
									Newman, George & Co. - acquisition of Du Pont's Corfam inventory	N	Oct	27	29			

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Newport Chemical - acquisition of Val-Cord Southern . . . . . R July 7 15  
 Nicolon N.V. - propylene seaweed prevents shore erosion, may provide breeding area for marine life . . . . . July 14 37  
 Nihon Exlan - acrylic fibers licensing agreement . . . . . R Aug 4 19  
 Nippon Kokan Seishi - studying European synthetic paper market prospects . . . . . R Nov 3 17  
 Nippon-Ketjen - desulfurization catalysts plant at Niihama, Japan . . . . . R July 28 15  
 Nippon Kokan - two phosphoric acid processes . . . . . Sept 22 67  
 Nisho-Iwa - caprolactam plant in Turkey for Petkim . . . . . R Sept 1 16  
 Nitrogen Eiran Teoranta - fertilizer plant at Arklow (Wicklow), Ireland . . . . . Sept 8 22  
 Norel - formaldehyde and urea-formaldehyde resins plants. Finns take petrochemical plunge (table) . . . . . Aug 4 17  
 North American Biologicals Inc. - Hercules agrees to guarantee five-year loan of \$1.5-million; receives warrants to purchase 50% of outstanding shares of NABI . . . . . N Oct 20 17  
 North American Coal - coal strike agreement will lead to higher prices . . . . . Nov 24 16  
 North American Royalties - oil and gas joint exploration program on the Gulf Coast . . . . . R Sept 1 10  
 North West Acid Pty. - sulfuric acid facility in Tasmania . . . . . R Sept 15 24  
 Northern Illinois Gas - asks for permission to reduce service for nearly 200 industrial "off-peak" customers and totally eliminate service next year . . . . . N Sept 1 43  
 Northern Petrochemical - ethylene oxide and glycol plant at Joliet, Ill. shut by explosion in heat exchanger . . . . . N Nov 24 23  
 Ethylene plant at Joliet, Ill. begins operation . . . . . N Oct 6 15  
 Slatin, A., underscores the progress plastic "paper" is making, at plastic show . . . . . Nov 10 19  
 Northwest Industries - sales and earnings - third-quarter summary . . . . . Oct 13 28  
 Northwest Paper - pulp mill expansion plans for Cloquet, Minn. plant being trimmed . . . . . R July 21 15  
 Norton Co. - Perks, Wm. financial vice-president: What chemical makers want after the freeze . . . . . Sept 15 15  
 Novamont Corp. - sales and earnings 1970 . . . . . N Aug 11 6  
 Nuclear Materials & Equipment Corp. - acquired by Babcock & Wilcox . . . . . R Nov 10 20  
 Atlantic Richfield phasing out operations at Apollo, Pa. . . . . R Sept 1 10  
 Nutrilite Products, Inc. - citrus-peel extract sweetener research . . . . . July 21 22

## O

OKI - petrochemical complex at Rijeka, Yugoslavia . . . . . Nov 17 35  
 Oasis Pipe Line Co. - construction of pipeline in 72 to transport natural gas . . . . . R Nov 24 19  
 Occidental Petroleum - asks FTC approval to spin off its DAP business to Baker Chemical; Becker would buy stock interest in Hooker Farm Chemicals of Taft, Inc. . . . . Nov 24 17  
 Dividend payout cut . . . . . R Dec 22 17  
 Hooker Chemical uses chemical . . . . . R Dec 22 17  
 Houston Oil & Minerals purchases oil and gas properties . . . . . R Dec 22 17  
 L.A. court refuses rehearing on Kern stock case . . . . . R Dec 8 19  
 Messing, Morris: He started at bottom - new helps others move up . . . . . Sept 1 48  
 Sales and earnings, first-half '71 Aug 25-14 . . . . . Sept 8 16  
 Willers, Thomas resigns; will be succeeded by Morris Messing . . . . . Sept 1 8  
 Oesterreichische Mineraloel Verwaltung - merger of the petrochemical divisions of OMV and OSW set . . . . . Sept 29 32  
 Oesterreichische Stickstoffwerke - merger of the petrochemical divisions of OMV and OSW set . . . . . Sept 29 32  
 Old Ben Coal Co. - coal price hike cut . . . . . Dec 8 20  
 Olin Corp. - Doner, Max: MCA panel on occupational safety . . . . . Dec 1 16  
 FRB authorizes company to continue as one-bank holding company . . . . . R Dec 15 22  
 Instrument that continuously detects, measures and records the presence of minute quantities of moisture in manufacturing process . . . . . Dec 8 41  
 Paulsboro, N.J., plant uses a Weiman-Lord sodium sulfate absorption process . . . . . Sept 1 44  
 PVC copolymer resins prices . . . . . N Nov 3 23  
 PVC prices . . . . . N Nov 10 61  
 Safe-T-Flate pillow system - air bag controversy . . . . . July 28 16  
 Air bags for automobiles face new delay . . . . . Sept 15 17  
 Salville, Va., chlorine-caustic soda plant will close . . . . . R Nov 24 19  
 Titanium anode for chlorine cell to be installed at Augusta, Ga. . . . . N Oct 27 37  
 Trimming tabs at trade shows . . . . . Nov 3 49

Olsen Engineering - licenses process to recover Claus unit tail gas . . . . . N Aug 18 88  
 Olson Farms - Dolco Packaging see under name . . . . .  
 Omega Chemical Co. - salesmen wear skirts: company finds all-women sales force outperforms men, helps double sales of chemical specialties within a year . . . . . Sept 1 35  
 Orbitex Inc. - Nomex as boat-building material . . . . . July 21 46  
 Oregon Metallurgical - expects to cut back some production . . . . . Sept 1 8  
 Organic Chemical Industry of Skopje - PVC unit at Skopje, Yugoslavia N July 28-29  
 Organic/Inorganic Chemical Corp. - citrus-peel extract sweetener research . . . . . July 21 22  
 Oriental Chemical Fiber - polyester filament plant to be built in Taiwan . . . . . R July 7 45  
 Ormet - Burnside, La. plant labor agreement . . . . . R July 21 15  
 Osage Chemical - ethylene plant planned at Beaumont, Tex. . . . . N Aug 4 6  
 Gulf Coast ethylene plant may not be built . . . . . N Nov 17 17  
 Osaka Petrochemical Industries - ethylene for alcohol plant . . . . . R Oct 20 30  
 Overmyer, D.H. Co. - management research consultants team up in two new ventures to offer managed warehouse . . . . . Nov 3 49  
 Overmyer/DAL - formed to conduct R&D of physical distribution programs . . . . . Nov 3 49  
 Overmyer Distribution Services - management research consultants team up in two new ventures to offer managed warehouse . . . . . Nov 3 49  
 Overseas Private Investment Corp. - will provide insurance for U.S. investors in Yugoslavia against seizure of property . . . . . Nov 17 35  
 Owens-Corning Fiberglass - Tenneco Oil ships calcined colemanite N Aug 11-39  
 Owens-Illinois - Detroit's program to recycle glass containers may be stymied . . . . . Aug 11 10  
 Oxirane Chemical - propylene oxide plant at Bayport, Tex., will be back onstream by the end of Aug.; cause of the blast not yet revealed . . . . . N July 7 33  
 Plant now onstream N Sept 1-33 . . . . . R Sept 22 24  
 Oxirane Chemie - steam from Air Products plant . . . . . R Aug 4 19

## P

PE Development Co. - engineering companies are selling computer services to outsiders . . . . . Sept 8 35  
 PPC Industries - automotive glass fabrication operations at Crestline, O., expansion . . . . . R Nov 3 19  
 Barium pullout . . . . . Oct 13 22  
 Calcium hypochlorite and calcium chloride prices . . . . . N Dec 22 27  
 Caustic soda prices going up . . . . . N Dec 8 17  
 Deicer markets . . . . . Nov 24 31  
 Double-glazed window developed that: "warms itself, muffles unwanted sound, insulates against cold and heat, screens out solar glare" . . . . . R Sept 29 24  
 Glass fibers plant at Lexington, N.C., expansion . . . . . July 28 18  
 N.Y. cites paint for lead content . . . . . Dec 15 41  
 Newton, Wilbert, at MCA meeting . . . . . Dec 1 16  
 Paint remover sales . . . . . Oct 20 65  
 Potassium azide may become an important agricultural chemical and also reduce nitrate pollution of ground water and streams . . . . . N Oct 20 69  
 Propylene glycol: licenses process from Kuraray Co.; putting onstream at Penualas, P.R., an olefins plant (with Corco) that will make 650 million lbs/year of propylene coproduct . . . . . N Oct 27 37  
 Public offering of government-backed merchant marine bonds . . . . . R Dec 22 17  
 Puerto Rico glycol plant . . . . . R July 21 39  
 Sales in '71 second-quarter to be at a record high . . . . . July 14 15  
 Third-quarter estimated . . . . . Oct 13 28  
 System to trap particulates from automotive exhaust developed . . . . . N Sept 22 74  
 Pacific Lighting Service - Lurgi plant to make gas equivalent to natural gas studied by new group . . . . . N Nov 3 51  
 Pacific Northwest Pipe Line - merger with El Paso: bribery charges stymie merger okay . . . . . Dec 8 17  
 Pacific Pumping Co. - acquired by Baltimore Aircoil . . . . . N July 7 9  
 Pacific Vegetable Oil - slick must form a new corporation to take over the assets it sold to PVO . . . . . R Nov 24 19  
 Pan American Sulphur - interest in Fertilizantes Fosforados Mexicanos and Cia, San Noe to be sold to Financiera Banemex . . . . . R Dec 15 33  
 Sales and earnings, first-half . . . . . Sept 8 16  
 Shareholders group fights management on sales of assets . . . . . July 7 15  
 Shareholders okay a company proposal to restructure its business . . . . . Oct 6 11

Parke-Davis - Warner-Lambert acquisition: FTC is still seeking to block merger . . . . . N July 7 9  
 Request for order to restrain FTC from charging antitrust violation denied . . . . . R July 21 15  
 Parsons, Ralph M. Co. - licenses process to recover Claus unit tail gas . . . . . N Aug 18 88  
 Process produces super sulfur recovery from refinery waste gases . . . . . N Sept 22 73  
 Technology for sulfuric acid plant on Hokkaido island . . . . . R July 14 26  
 Patterson-Sargent - N.Y. cites paint for lead content . . . . . Dec 15 41  
 Pazchem - Israel's pesticides industry banks heavily on know-how and export sales . . . . . July 14 43  
 Peabody Coal - Kennecott petition asking reconsideration of a commission order requiring sale of company's PC unit turned down . . . . . R July 14 16  
 Peabody Engineering - air pollution control systems at Chemsow . . . . . Dec 8 41  
 Pechiney - graphite electrode plant near Liege, Belgium, joint venture . . . . . R Sept 15 24  
 Pechiney-St. Gobain - Denmark's first PVC plant . . . . . R July 28 15  
 Merger with Progil to form Rhone-Progil . . . . . R Sept 1 16  
 PVC unit at Skopje, Yugoslavia N July 28-29  
 Rhone-Poulenc will increase its ownership in P-SG by acquiring the 39.11% interest now held by Saint Gobain-Pont-a-Mousson . . . . . N July 7 39  
 Soc. Polimeros de Mexico see under name  
 Pekema - Finland takes petrochemical plunge (table) . . . . . Aug 4 17  
 Pennwalt Corp. - fluorocarbonyl plant at Thorofare, N.J., brings total U.S. capacity for fluorinated hydrocarbons to nearly 1 billion lbs./year . . . . . July 14 15  
 Fungicide sales . . . . . Sept 8 37  
 Pennsylvania being pressured for some kind of corporate tax relief . . . . . N Aug 18 18  
 Pennsylvania's top CPI firms threaten to seek greener tax pastures . . . . . Sept 29 39  
 Wyandotte, Mich. families file joint air pollution suit . . . . . Aug 4 10  
 Pentagon Chemical & Paint - N.Y. cites paint for lead content . . . . . Dec 15 41  
 Perkin-Elmer - Fraunhofer line discriminator . . . . . July 14 20  
 Perma-Pure Process Co. - device continuously removes water vapor from an air stream . . . . . N Dec 8 43  
 Petrochemical Philippines - hydrogen peroxide plant . . . . . R Dec 1 21  
 Perry Equipment - acquisition of machinery and equipment from the cellulose flake section of Celanese's Cumberland plant . . . . . R Oct 27 21  
 Pertamina - cryogenic nitrogen plant at Ruidja, Indonesia . . . . . R Sept 15 24  
 Peterson Puritan Inc. - Peterson, H. on aerosols . . . . . Oct 20 66  
 Petkim Petrokimya - caprolactam plant will use Inventa process . . . . . R Sept 1 16  
 Petrocarbon Developments - Polish contracts . . . . . R Aug 4 19  
 Petrochemical Investment Corp. - Houston polystyrene plant capacity expansion . . . . . R Oct 6 15  
 Petrocoke Ltd. - electrode and steel-grade coke plant at Mizushima expansion . . . . . R Sept 1 16  
 Petrofina - petrochemical research efforts to be pooled with ELF-Erap and AGIP . . . . . R Dec 15 33  
 Petrofina of Canada - hydrogen plant at Pointe aux Trembles contract goes to Lummus . . . . . R Sept 15 24  
 Metal powder operation at Pointe aux Trembles, Que., will be temporarily closed . . . . . N Oct 13 57  
 Petroleos Mexicanos - building new plants to help improve its export picture . . . . . July 7 44  
 Petromar, S.A. - alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms . . . . . Dec 22 16  
 Petronol - infrared scanning technique . . . . . Nov 17 66  
 Petroquímica Bahia Blanca - set up to take over construction of ethylene-based complex proposed 3½ years ago by Dow Chemical . . . . . N Nov 17 31  
 Petroquímica Chilena - Lummus' British subsidiary gets contract to design and engineer a \$40-million petrochemical complex at Concepcion . . . . . N Sept 15 21  
 Petroquímica General Mosconi - receives bids for construction of aromatics complex in La Plata . . . . . N Nov 17 31  
 Petro-Tex - butadiene plant . . . . . N Nov 3 41  
 Purification system in the main butadiene unit at Houston plant damaged by fire and explosion . . . . . N Sept 22 59  
 Pfizer Inc. - Antibiotic production residue from Groton, Conn. plant: company may switch to a land-disposal system to assuage EPA's concern about the aquatic environment of the sound . . . . . Oct 20 21  
 Citric acid plant near Southport, S.C., studied . . . . . R Oct 20 23  
 Irish plants . . . . . Sept 8 22  
 Laubach, Gerald, executive vice-president: A researcher climbing to the top . . . . . Oct 13 88  
 Pratt, Edmund, Jr., moves up to president and Gerald Laubach to executive v.p. . . . . R Sept 29 24



Pyrolytic graphite ribbon	July	21	24	Probe International - Mainland China trade could open door for U.S. ag chemicals	Aug	18	29	Research Triangle Institute - Project Threshold: 3-year, \$2-million industry-financed study launched to find ways to assure accuracy of air pollution measurements	Sept	15	29			
Sales and earnings - third-quarter '71	N	Oct	20	17	Procedyne Corp. - AWT Systems Inc. see under name			Resistol S.A. - Monsanto Mexicana merger will create Mexico's third largest chemical company, Industrias Resistol S.A. (IRSA)	N	July	7	9		
Court refuses to hear appeal challenging the way money from court judgment will be distributed	N	Oct	27	20	Process Associates - licenses molecular sieves patent	Sept	1	44	Resource Sciences Corp. - acquired by Slick R Sept 8-16	R	Oct	6	15	
Pharmetics, Inc. - synthetic skin: "polyion complex" based on polystyrene that resembles living animal tissue	N	Aug	4	33	Process Evaluation & Development Corp. - Grace preparing a new process to make newsprint from bagasse	Sept	29	21	Revlon - Ciba-Geigy and Revlon want to swap drug patents, market rights	July	7	13		
Phelps Dodge - copper: good year expected but pollution control costs could curb output	Dec	22	17	Procter & Gamble - Byrd says states should have primary responsibility for water pollution control and the federal government should take a backup position	Sept	22	23	Ciba-Geigy will receive additional \$20 million	R	Oct	20	23		
Copper outlook dull	Dec	1	18	Challenges a blast by Purex that the industry was pushing phosphate-type cleaners	Aug	18	25	Rex Chainbelt - overflow treatment system	N	Oct	13	71		
Copper talks hung up	July	21	15	FTC challenges ads	Sept	8	12	Reynolds Metals - aluminum ingot prices	N	Sept	29	37		
Pilot plant to get elemental sulfur from sulfur dioxide in smelter gas	N	Sept	29	51	Dade County, Fla. phosphate ban hearings	Nov	24	20	Brown-in-Bag vying for a share of the cooking market	N	Oct	27	29	
Philadelphia Quartz - dry powder, hydrous sodium polysilicates, developed for detergents and cleaning compounds	Aug	18	41	Company will stop selling detergents	N	Dec	15	27	Dividends cut	N	Sept	1	8	
New forms of silica that repel water are looking for chemical jobs	Sept	8	39	Locust Point, Md., detergent plant on strike	Nov	3	21	Rheinische Oelfinwerke - butadiene plant addition	R	Sept	1	16		
Philippine Geothermal Inc. - exploration for geothermal energy (natural steam or hot water) in a volcanic area in SE Luzon	R	Sept	29	24	Management changes: Howard Morgens becomes chairman of the board and chief executive officer; Neil McElroy becomes chairman of the executive committee	Oct	20	22	Rhodia, Inc. - acquires Richardson-Merrell's Hess & Clark Div.	R	July	28	18	
Phillips Petroleum - butadiene markets	Nov	3	41	Toothpaste makers deny Nader's charges that stannous fluoride in toothpaste stains teeth	July	21	13	Plastic film prices	N	July	21	41		
Calatrava see under name	Sept	8	35	Productora de Gas Carbonica (Gascarb) - Carbon dioxide plant at Maracay, Venezuela	R	Aug	4	19	Rhodia Industrias Quimicas e Texteis - teraphthalic plant	N	Dec	8	26	
Computer programs available for license	N	Sept	22	59	Progil - Pechiney-St. Gobain will merge	Sept	1	16	Rhodiatoce - Montedison acquires full ownership; will integrate Rhodiatoce, Polymer and Chatillon	N	Dec	22	19	
Contract with NGP	N	Sept	22	59	Progres-Invest - Pancevo off-site units	Nov	17	35	Rhone-Poulenc - joint venture called Serofim to engage in R&D of high-modulus carbon fibers	R	July	28	15	
Electrochemical fluorination process to make fluorocarbons	N	Sept	1	43	Public Service Co. of Colorado - glass-fiber-reinforced light poles tested	N	Aug	4	34	Rhodiatoce and Farmitalia - owned by Pechiney-Saint Gobain ownership to be increased by acquiring interest now held by Saint Gobain-Pont-a-Mousson	N	July	7	39
Management shuffle: William Martin becomes president, John Houchin assumes new title of deputy chairman of the board, William Keeler remains chairman of the board and chief executive officer	Oct	20	22	Puerto Rico Oilefins - special oil import quota for Puerto Rican olefins plant requested	N	July	28	9	Sales and earnings in '70	N	July	7	39	
North Sea "Ekofisk" oil field will also produce about 30,000 bbls/day of natural gas liquids - ethane, propane and butane; naphtha shortage forecast	N	Nov	17	31	Purechem - titanium trichloride plant in the Bayport Industrial Park near Houston	R	Sept	8	16	Sales and earnings in '71 N Oct 13-31, (table)	N	Oct	27	51
Polyphenyl sulfide resins, Ryton, unit to be built at Philtech plant, Tex.	N	July	21	49	Purex Corp. - Brillo/Purex-brand non-phosphate detergent, reformulating other cleaning products to remove phosphates	Aug	18	39	Soc. Melle-Bezon holdings will be increased; assets will be transferred to Glucides & Derives which will be re-named Melle-Bezon	R	Oct	20	30	
Polypropylene patent dispute with Montedison still not settled	N	Dec	15	39	Chem-Mill and Coatings Div. - acrylic coating, Turco Guard 100, may solve statutory problems	Aug	25	15	Textile subsidiaries will be consolidated and merged with CTA	R	Oct	20	30	
Process engineering computer programs by a joint venture	N	July	7	27	P&G challenges a blast by Purex that the industry was pushing phosphate-type cleaners	Aug	18	25	Rhone-Progil - formed by Pechiney-St. Gobain and Progil merger	R	Sept	1	16	
Sales and earnings, '71 first half	Nov	14	15	Quits SDA; other soapers with a stake in nonphosphate detergents may follow out	Nov	10	61	Richardson-Merrell - Baker & Merrell-National Labs: Israeli diagnostic test for cancer evaluation	N	July	28	40		
Technology for Yugoslavian PE plant	N	Oct	6	19	Sales and earnings in '71	Sept	1	9	Hess & Clark Div. sold to Rhodia Inc.	R	July	28	18	
Pirelli - labor force to be trimmed	N	Oct	6	19	Purification Sciences, Inc. - Grace's Davison has world-wide license to plate-type generator	Nov	3	55	National Drug Co. - vaccine to stem the epidemic of sleeping sickness afflicting horses in Texas	N	July	28	39	
Plains Dresser, Ltd. - contractor for Amoco's gas dehydration plant	R	Sept	29	24	Grace's Davison Chemical Div. offers new, compact air-cooled ozone generators in modular arrangement	Oct	6	48	Ridge Minerals Venture - Interior Dept. grants lease to mine sodium salts in federal oil shale lands in Colo.	N	July	14	10	
Plastic Resins & Chemicals - PVC unit at Sahapuram, India	Sept	15	23	Qualitex - ICI plants acquisition	N	Aug	11	31	Ridgway Marine - Nomex as boat-building material	July	21	46		
Plastiline - Justice Dept. suit charges conspiracy involving DWV plastic pipe fittings	N	July	21	17	Rad, Energoinvest - Pancevo complex contracts	Nov	17	35	Riegel Paper - considering a plan under which its pulp, paper and real estate operations would be taken over by Southwest Forest Industries (table)	July	14	14		
Polarbit - PP unit for Sao Paulo proposed	Dec	8	26	Radiation International - Nuclear Div.: irradiation turns acrylic-oak combination into durable flooring	July	14	37	Merging with Federal Paper Board instead of Southwest Forest	Aug	25	14			
Polimeros del Lago - polyethylene plant will use French technology	N	Oct	20	31	Ranco Industrial Products - deicer markets	Nov	24	31	Rikkhappo - merger with Typpi; Finns take petrochemical plunge (table)	Aug	4	18		
Polimeks - sulfuric acid plants in Russia	R	Sept	15	24	Rayonier Quebec - Canada: three dissolving pulp mills will be built	July	7	10	Rio Tinto Zinc - potash project in Yorkshire, England, shelved	N	Sept	22	59	
Polimeks-Cekop - Du Pont's Corfam goes to Poland	Nov	17	22	Raytheon Co. - merger with Iowa Manufacturing okayed	R	Dec	22	17	Rock School Joint Venture - Interior Dept. grants lease to mine sodium salts in federal oil shale lands in Colorado	N	July	14	10	
Polyetma - Greek polyester fiber plant	N	Aug	25	20	Reactive Metals Co. - Pres. Price predicts that titanium prices will be depressed for the rest of '71	Sept	1	8	Rocky Mountain Research - four day work-week	R	Aug	4	12	
Polymer Corp. - asks for a finding that imports of styrene-butadiene rubber by Goodyear of Canada be considered dumping of the material by its Japanese producer	N	Sept	1	33	Red Devil Paints - paint remover sales	Oct	20	65	Roehr Chemicals - amphetamine production quotas set by the Justice Dept.	N	Dec	8	14	
Chairman Rowntree says Communist China could be a market for Western chemical technology, particularly for production of man-made fibers	N	July	28	29	REFAC Chemical Procs Co. - European boiler treatment compound, Panorin, making bid for the American market	Oct	27	41	Rohm & Haas - fungicide sales: Dithane M-45 N Aug 11-18	Sept	8	37		
Ethylene plant joint venture in Canada considered	N	Sept	1	13	Reheis Chemical - Rubino, A. on aerosols	Oct	20	66	Government asks that RBH be enjoined from allegedly discharging toxic waste into the Houston Ship Channel	N	July	28	9	
Housing systems plant at Milton, Ont.	Nov	3	46	Reichhold Chemicals - polyester-resin reinforced "paper" houses approved by FHA	Aug	29	24	Gregory, V. Jr. at Financial Analysts of Philadelphia meeting	Dec	15	21			
Montedison will integrate Rhodiatoce, Polymer and Chatillon	N	Dec	22	19	Reliance Universal - superhighlines: thermo-setting coatings bid for furniture market	Dec	8	31	Patent Office reverses a '67 decision that awarded priority to Monsanto on use of 3, 4-dichloropropionitrile as a selective postemergence herbicide and awarded priority to Rohm & Haas	R	July	28	18	
Polyvinylidene Co., Ltd. - polyester fiber complex at Mogilev; no harassment or reprisals for the U.K.'s ouster of Soviet spies has been reported	N	Oct	6	19	Resdel Engineering - acquiring Whittaker's distribution rights to Courier Communications	July	7	15	Pennsylvania being pressured for some kind of corporate tax relief	N	Aug	18	18	
Russian polyester fiber plant onstream	R	July	21	33	Research-Cottrell - electrostatic precipitators, where they're used, where they're growing (charts)	Aug	18	77	Pennsylvania's "oppressive" corporate taxes may force companies to move, says President Gregory	N	Aug	4	6	
Pontiac Corp. - urethane blocks inside telescoping steel boxes are impact absorber in bumpers	Sept	15	41						Pennsylvania's top CPI firms threaten to seek greener tax pastures	Sept	29	39		
Porter, H.K. Co. - patent fight: dispute with Goodyear over patent on a unique flexible hose for car radiators won	N	Oct	27	25					Plexiglas mirror featured at plastics show	Nov	10	19		
Potlatch Forests - Northwest Paper see under name									Polymer to improve impact of PVC products	N	Aug	11	39	
Power-Gas Corp., Ltd. - acrylonitrile from propane process	N	Oct	20	69					Sales and earnings, third quarter	N	Oct	6	9	
Formaldehyde plant at Oldbury will use ICI process	R	July	28	15					Rollins-Purle - Logan Township, N.J., plant ordered by the state to install acceptable waste-water treatment and disposal units	R	Nov	3	19	
Methanol plant at Camacari, Bahia contract	Dec	8	26						Romchim - contract for acrylonitrile plant at Pitesti goes to Badger Ltd.	R	Dec	1	21	
Subcontractor for Indian fertilizer project	Dept	15	23						Ethylene oxide and ethylene glycol plant at Pitesti planned	R	Nov	24	21	
Pratt & Lambert - paint remover sales	Oct	20	65						Rorer-Amchem - Pennsylvania being pressured for some kind of corporate tax relief	N	Aug	18	18	
Princeton Chemical Research, Inc. - degradable polymer will be sold under the name of Ecolon	Dec	8	45											
Pritchard, J.F. & Co. - contractors predict '72 upturn (chart)	July	28	44											
Stretford process, which can also remove 99.9% of sulfur from gas, sublicensed to Black, Sivalis & Bryson	N	Sept	22	74										
Pritchard-Rhodes - contract for Sonatrach's gas liquefaction plant at Skikda, Algeria	R	July	7	45										

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Pennsylvania's top CPI firms threaten to seek greener tax pastures . . . . .	Sept	29	39	Joins Rotterdam-Antwerp pipeline complex . . . . .	N	Dec	1	29	Soc. Technique d'Engrais Chimiques - Niger desert uranium minerals processing plant . . . . .	R	Aug	4	19	
Rothschild, N.M. & Sons - African nickel-copper development; stock transactions must be ironed out first . . . . .	Aug	4	11	Styrene-butadiene capacity in Pernis, Holland, boosted . . . . .	R	July	28	15	Soc. Traction & Electricite - graphite electrode plant near Liege, Belgium, joint venture . . . . .	R	Sept	15	24	
Round Prairie Lumber Co. - Fibreboard Corp. issues stock (table) . . . . .	July	14	14	Shell Oil Co. - affiliates are expanding facilities abroad . . . . .	N	Aug	18	31	Sofina - glycerol plant in U.S.S.R. - R Soc-France - Franco-Soviet chemical trading company . . . . .	R	Aug	4	19	
Royal Dutch/Shell - Sarawak see under name . . . . .				Energy - and clean air not as incompatible as some environmentalists would have one believe says Bridges . . . . .		Dec	8	20	Solvay & Cie. - bond offering will be used to help finance a \$450-million capital spending program . . . . .	N	Sept	22	51	
Royce Chemicals - sodium hydrosulfite plant in India . . . . .	Sept	15	23	Housecleaning in chemicals to improve profitability . . . . .		Nov	17	23	Chairman Jacques Solvay: Jogger runs Belgium's biggest chemical maker . . . . .		Sept	29	68	
Rubberfabriek Vredstein - Goodyear will sell its shares of RV stock to Goodrich . . . . .	Oct	27	19	Portable light meter to measure visible smoke emissions to be marketed . . . . .	N	Aug	11	39	A new look for European old-timer - '71 profits slide (table) . . . . .		Oct	27	51	
Rust Engineering - cooperation and licensing agreement with Boliden A.B. in copper processing . . . . .	N	Aug	4	34	Styrene-butadiene rubber business being dropped . . . . .		Nov	17	23	Plans to visit USSR in an effort to expand trade and technical cooperation . . . . .	N	Nov	24	43
<b>S</b>				Sulfur emission limits set in Anacortes, Wash. . . . .	R	Dec	1	18	Sales and earnings - first half of '71 . . . . .	N	Oct	20	31	
St. Clair Rubber Co. - three-year contract signed . . . . .	Sept	22	24	Texas expansions to recover liquid ethane . . . . .	R	July	7	15	Technology for Russian glycerol plant . . . . .	R	Aug	4	19	
Saint Gobain-Pont-a-Mousson - Rhone-Poulenc will increase its ownership in Pechiney-Saint Gobain by acquiring the 39.11% interest now held by SG-PAM . . . . .	N	July	7	39	Shell Pipe Line Corp. - on-site production, shredding and spreading of urethane foam to soak up oil spills will be evaluated . . . . .	N	Sept	8	40	United Polymer sec. issues new 2-yr contract . . . . .		Aug	11	12
St. Joe Minerals - lead prices . . . . .	N	Dec	15	27	Sheller-Globe Corp. - URCLPWA's new 2-yr contract . . . . .		Aug	11	12	Sonatrach - awards construction contract to Pritchard-Rhodes for a gas liquefaction plant at Skikda, Algeria . . . . .	R	July	7	45
St. Regis Paper - Florida formulates tough rules to control Escambia Bay discharges . . . . .	Nov	10	18	Sherwin-Williams - paint remover sales Phase II: Queuing for price hikes . . . . .		Oct	20	65	Sonoco Products - majority interest in Bergen Built Inc. (table) . . . . .		July	14	14	
Offer to acquire Tillotson & Son Ltd. (table) . . . . .	July	14	14	Superfinishes: thermosetting coatings bid for furniture market . . . . .		Dec	8	31	Southwest Forest Industries - Riegel Paper considering a plan under which its pulp, paper and real estate operations would be taken over by SF (table) . . . . .		July	14	14	
Will sell two paper mills at Dayton and Urbana, Q., converting equipment at Urbana to Ward Harrison; Harrison will set up Howard Paper Mills . . . . .	R	Dec	1	18	Showa Denko - sales and earnings, first-half '71 . . . . .	N	Aug	18	31	Riegel Paper calls off merger . . . . .		Aug	25	14
Salem Brosius - contract for Deutsche Marathon's petroleum coke calcination plant expansion at Burghausen, Bavaria . . . . .	R	July	7	45	Signal Oil & Gas - geothermal steam well produces 210,000 lbs. of steam per hour during drilling . . . . .		Nov	17	24	Soyuzimexport - U.S.S.R. seeks ventures with West . . . . .		Oct	20	29
Salisbury Laboratories - Mossman: I'm impressed how association (SOCCMA) bends backward to help smaller companies . . . . .	Dec	1	26	Sim-Chem - DMT plant at Mogilev, Russia, completed . . . . .	R	Sept	1	10	Spring Chemicals Ltd. - System for spent sulfate liquor processing . . . . .	N	Sept	29	51	
Salzgitter - offers to build PE plant and coking unit for Poland in exchange for Polish coal . . . . .	R	Aug	4	19	Sinclair Oil - Justice Dept. rules American Petrofina cannot buy former SO properties in 14 states from Atlantic Richfield . . . . .	R	Dec	1	18	Sprunze, Gilbert Co. - superfinishes: thermosetting coating bid for furniture market . . . . .		Dec	8	31
Samson Chemical - hydrophilic, hydroxylated methacrylic polymer coating to confound graffiti artists . . . . .	Aug	11	10	Slick Corp. - acquires Resource Science Corp. R Sept 8-16 . . . . .	R	Oct	6	15	Squibb Beech-Nut - tetracycline judgment: U.S. Supreme Court refuses to hear appeal challenging the way money from court judgment will be distributed . . . . .	N	Oct	20	17	
Sandoz - sales first-half '71 . . . . .	N	July	28	29	Court decision vacates the injunction barring Slick from exercising its 50.7% stock ownership in Filtril . . . . .	R	Nov	17	24	Staley, A.E. Mfg. Co. - snack-food business a boom for starches . . . . .		Nov	17	53
Sandvik Steel - tungsten carbide production starts . . . . .	N	Aug	11	40	Filtril drops antitrust suit against Slick; Slick must form a new corporation to take over the assets it sold to Pacific Vegetable Oil . . . . .	R	Nov	24	19	Standard Chemical Products - changes name to Henkel, Inc. . . . .	R	Sept	29	24
Sanyo Chemical Industries - flocculants capacity at Nagoya to double . . . . .	R	July	28	15	Officers fill Filtril posts. Is merger in the wind? . . . . .		Dec	8	19	Standard Oil of California - Hawaii vs SOC in gasoline and asphalt price fixing case . . . . .		Oct	27	20
Saprolin - N.Y. cites patent for lead content . . . . .	Dec	15	41	Sales and earnings, first-half '71		Aug	25	14	Midwest directors turn thumbs down on merger . . . . .		Aug	25	9	
Sarawak - natural gas liquefaction unit in the Malaysia-Borneo area planned "Saturday Review" - acquired by Boise Cascade (table) . . . . .	July	14	14	Sloane, R. & G. Manufacturing - Justice Dept. suit charges conspiracy involving DWV plastic pipe fittings . . . . .	N	July	21	17	Midwest stockholders suing Standard for using "misleading scheme" to take control of Midwest . . . . .	R	Oct	6	15	
Savogran Co. - paint remover sales	Oct	20	65	Slovakian Chemical Industry Corp. - nylon fiber plant will use Akzo technology and equipment . . . . .	R	Aug	4	19	Standard plans to offer stock exchange. Polypropylene patent dispute with Montedison still not settled . . . . .	N	Dec	15	39	
Scientific Design - benzene-based process for India's maleic anhydride plant	R	Oct	20	30	Smith, A.O. Corp. - sales and earnings - third-quarter estimated . . . . .		Oct	13	28	Standard Oil (New Jersey) - Brisco: Housecleaning in chemicals to improve profitability . . . . .		Nov	17	23
Contract for Romchini's ethylene oxide and ethylene glycol plant	R	Nov	24	21	Smith, Kline & French - amphetamine production quotas set by the Justice Dept. . . . .	N	Dec	8	14	Garvin, Clifton, at MCA meeting		Dec	1	16
Scott Paper - Mobile, Ala., mill workers sign three-year pact	Sept	22	24	Stimulants' production must be cut 60% says Justice . . . . .		Dec	15	23	Standard Oil (Ohio) - sales and earnings in '71 . . . . .		July	7	14	
Negotiating for tract in Dover, Del., for disposable paper fabric finishing plant . . . . .	R	Sept	22	24	Drugmakers seek vaccine and pill to fight narcotic addiction . . . . .		Sept	1	39	Star Bronze Co. - Zip Strip paint remover sales . . . . .		Oct	20	65
Paper-fiber plant site may be in either Delaware or Maryland	Aug	25	16	Introduces less expensive line of drugs		Sept	22	21	Star Paper - Nippon Kakoh studying European synthetic paper market prospects . . . . .	R	Nov	3	17	
Pennsylvania being pressured for some kind of corporate tax relief	N	Aug	18	18	Pennsylvania being pressured for some kind of corporate tax relief	N	Aug	18	18	Stauffer Chemical Co. - Baton Rouge Trade Council of the AFL-CIO drops the "unfair labor practice" charges it filed last month against Stauffer and Borden . . . . .		July	14	17
Pennsylvania's top CPI firms threaten to seek greener tax pastures . . . . .	Sept	29	29	Plan to accelerate growth in other areas calls for consumer products		Nov	24	19	Houston workers laid off during construction slowdown band together to win contract maintenance jobs away from AFL-CIO . . . . .		Sept	1	42	
Scovill Mfg. Co. - process for saving plating wastes	Sept	15	29	Smith, Miller & Patch - acquired by Cooper Labs . . . . .	N	Sept	1	10	Delaware's air pollution regulations for sulfur dioxide emissions: company asks for more time to comply with Sept. 1 '73 deadline . . . . .		Oct	13	21	
Searle, G.D. & Co. - hormones, 11-beta-methyl-19-nortestosterone, new class unveiled . . . . .	N	Aug	4	33	Snam Progetti - contract for Yugoslavia aromatics fractionation plant . . . . .	R	Aug	4	19	Houston acid regeneration plant captured by Texas Air Control Board . . . . .		July	21	14
Selas Corp. - suing Wilshire Oil of Texas and 8 other companies and individuals for allegedly conspiring to take control of it "by fraudulent acts and practices"	Sept	29	23	LDPE plant for Algeria . . . . .	N	Oct	20	31	Company fined \$500 for contempt of court . . . . .		Aug	11	10	
Sener - contract for Calatrava butadiene expansion . . . . .	R	Oct	20	30	Snia Viscosa - Irish plant to polymerize caprolactam and spin nylon-6 fiber . . . . .		Sept	8	22	Pesticide bill hailed . . . . .		Sept	29	22
Serofim - Rhone-Poulenc and Soc. Le Carbone-Lorraine joint venture to engage in R&D of high-modulus carbon fibers . . . . .	R	July	28	25	Soc. Anonyme de Gerance et d'Arment (SAGA) - alleged monopoly in transatlantic shipping is crux of U.S. suit with foreign firms . . . . .		Dec	22	16	Soda ash expansion at Green River, Wyo. . . . .		Oct	20	22
Seroseon Laboratories - acquisition by Mallinckrodt Chemical Works . . . . .	N	Aug	11	6	Soc. d'Applications de Chimie Industrielle - joint venture urethane resins plant	N	July	14	30	Soda ash prices . . . . .	N	Dec	15	27
Shakespeare - Columbia Products Div.: golf club shaft of graphite yarn . . . . .	July	21	46	Soc. des Mines de l'Air - uranium minerals processing plant in Niger desert . . . . .	R	Aug	4	19	Technology for Yugoslavian VCM unit . . . . .		Nov	17	35	
Shell Chemical - bisphenol A capacity will be boosted . . . . .	N	July	7	34	Soc. des Usines Chimiques Rhone-Poulenc - methylchlorosilanes plant at Roussillon complex . . . . .	R	Dec	1	21	Turbine engines catch on in trucks and autos, could boost demand for synthetic lubricants . . . . .		Oct	27	27
make big demands . . . . .	N	Oct	27	43	Soc. du Caoutchouc Butyl - EPDM plant to start up in '73 . . . . .		Nov	24	27	Urethane foam operations sold to United Foam . . . . .		Aug	18	25
Landrin, DDT substitute . . . . .	Aug	18	35	Soc. Italiana de Resine - petrochemical complex in Lamezia, Calabria . . . . .	N	Sept	1	13	Stearns-Roger - OCR pilot plant for Consolidation Coal nearing completion . . . . .		Oct	27	33	
Nonionics are set for cleanup . . . . .	Oct	13	31	Soc. Le Carbone-Lorraine - joint venture called Serofim to engage in R&D of high-modulus carbon fibers . . . . .	R	July	28	15	Steelco Chemical - executives Steel and Deiters indicated for air pollution violation . . . . .		Aug	11	9	
Polypropylene plants for Canada revived . . . . .	N	Aug	18	31	Soc. Melle Bezon - Rhone-Poulenc will increase holdings, transfer assets to Glucides & Derives, which will be renamed Melle-Bezon . . . . .	R	Oct	20	30	Stepan Chemical - Maywood Div.: Natural cosmetics will make solid market gains . . . . .		Dec	22	36
Torrance, Calif., plant to close at year's end . . . . .	Nov	3	41	Soc. Nationale Sonatrach - Corco contracts for feedstocks . . . . .	N	Dec	22	9	Maywood Div.: Proteins add muscle to toiletries and cosmetics . . . . .		Aug	4	21	
Shell Chemicals U.K. - U.K. operations cut . . . . .	Dec	22	21	Soc. Polimeros de Mexico - PVC plant at San Martin Texmelucan . . . . .	R	Nov	10	87	Patent litigation with Allied involving a method for sulfation and sulfonation settled . . . . .	N	Aug	18	88	
Shell-Koppartans - Europe's first plant for desulfurizing heavy fuel oil will be built in Gothenburg, Sweden . . . . .	R	Oct	27	19					Sterling Drugs, Inc. - drugmakers seek vaccine and pill to fight narcotic addiction . . . . .		Sept	1	39	
Shell Nederland Chemie - diphenylolpropane plant in Holland . . . . .	N	Aug	18	31					Stevens, J.P. - Fantasia process for improving the comfort of polyester fabrics . . . . .		Oct	13	83	
Ethylene oxide unit for Moerdijk, Netherlands . . . . .	July	21	39											

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Stone & Webster - Yugoslavian contract for Pancho complex	Nov	17	35	Telecommunications Industries, Inc. - ozone and sonics team up in an unusual assault on bacteria and organics in water	N	Sept	22	73	Cooking plastic film: turkey-size heat-sealed polyester bag introduced	N	Oct	27	29
Stressed Structures Co. - Polymer licenses a self-stressing concrete process	Nov	3	46	Tenneco Corp. - acetylene line, 25-miles, to GAF at Texas City studied	N	Dec	22	31	Corrosion-inhibitor system could slash production costs in ammonia plants	Aug	4	32	
Studebaker-Worthington - Pasco shareholders group fights management on sales of assets	July	7	15	Cese, J.I. Co. see under name	N				De-icers devised for runways	Nov	24	29	
Stymer - polystyrene plant at Porvoo (table)	Aug	4	17	First commercial domestic shipment of calcined colemanite to Owens-Corning Fiberglass N Aug 11-39	R	Dec	15	22	Derivatives plants at Penuelas, Puerto Rico complex delayed	Sept	22	23	
Sumitomo Bayer Urethane - methylene diisocyanate unit at Kikumoto works completed	R	Sept	15	24	L.A. court refuses rehearing on Kern stock case	R	Dec	8	Ethylene amine capacity at Taft, La., boosted	N	Sept	1	33
Sumitomo Chemical - DDT substitutes, fenitrothion, phenothate	Aug	4	36	Oasis Pipe Line Co. see under name	R				Ethylene hardship award from OIAB	N	Nov	10	13
Licensing agreement for acrylic fibers with Cyanamid	R	Aug	4	19	Platform-mounted offshore nuclear power plants	Aug	18	98	Ethylene oxide capacity at Antwerp expanded	July	21	39	
Licensing agreement with Diamond for the manufacture of its cation-type Duolite ion exchange resins in Japan	R	Sept	15	18	Russian deal would swap American-built ships and grain farm equipment for Russian natural gas and oil	N	Dec	8	Group 1: chemicals and plastics division says reduced operating costs, new product mix will boost its earnings 7-10% through '80	Oct	20	57	
Profits drop, Hasegawa favors reevaluation of yen to slow Japan's economic growth	Sept	29	21	Texas natural gas pipeline system is being expanded 333 miles	July	21	13	How money managers protect companies during monetary crises	Nov	17	55		
Raw materials for Takasago menthol plant	R	Aug	4	19	Westrell, Casey Jr. will head new industrial ecology department	R	Aug	11	Interdisciplinary research (table)	Aug	25	43	
Sales and earnings first-half '71	N	Aug	11	31	Tennessee Eastman - Foster Wheeler obtains licensing rights to TPA and DMT technology	N	Nov	17	Joint plastic paper venture Acrolene Co. formed	N	Nov	17	17
Singapore petrochemical complex planned	N	Dec	22	19	Tetra Pak Co. - claims paraffin-like additive that makes plastics biodegradable	Dec	8	49	Lay off of 450 employees within the next few months	Nov	24	21	
Sumitomo Jikkai Envirotech - formed to make and market water treatment systems and industrial waste water processing equipment in Japan, S. Korea and Taiwan	R	Sept	1	16	Texaco Trinidad - sulfur recovery plant at Pointe-a-Pierre, Trinidad, contract goes to Ford, Bacon & Davis	R	Sept	8	Linde Div. will build liquid hydrogen plant at Ashtabula, O.	R	Sept	8	16
Sumitomo Shipbuilding & Machinery - forms 50-50 venture with Envirotech to make and market water treatment systems and industrial waste water processing equipment in Japan, S. Korea and Taiwan	R	Sept	1	16	Lurgi plant to make gas equivalent to natural gas studied by new group	N	Nov	3	Metal Associates see under name	Oct	13	29	
Sumter Builders - infrared scanning technique	Nov	17	66	SNG plant will use Japan Gasoline's process	N	Dec	8	25	Oil and gas interests sold to Ashland Oil	R	Oct	18	57
Sun Oil - Pennsylvania being pressured for some kind of corporate tax relief	N	Aug	18	18	Tecon Gasification project	N	Oct	20	"Outside directors are in"	July	7	34	
Pennsylvania's top CPI firms threaten to seek greener tax pastures	Sept	29	39	Texas Gulf Sulphur - mining at Lee Creek phosphate complex won't affect freshwater says study	Nov	3	17	West Virginia coal mine closed because it couldn't sell the mine's high-sulfur-content coal	R	Oct	6	15	
Sunstate Builders - plans condominium complex in Florida	R	Aug	11	10	Textilana Corp. - Stepan Chemical and Allied have settled patent litigation involving a method for sulfation and sulfonation	N	Aug	18	Union Carbide Canada - ethylene plant in Canada: UC possible new partner	N	Sept	1	13
Susquehanna Corp. - American Gypsum Div. sold to two private investors	R	Nov	17	24	Thai Petrochemical - Japanese balking at the price being asked for ethylene	N	Sept	29	Furnace for Beauharnois, Que. plant	R	Dec	15	33
Justice Dept. suit charges conspiracy involving DWV plastic pipe fittings	N	July	21	17	Tilottson & Son Ltd. - St. Regis Paper's acquisition offer (table)	July	14	14	Sales and earnings down in 3rd quarter '71	Nov	10	19	
Svenska Cellulosa Aktiebolaget - agreement gives Combustion Engineering the rights to produce and market SCA-Billerud chemical recovery process for sodium-based waste sulfite liquor	R	Nov	24	19	Tisza Chemical Works - polyethylene plant starts up	R	Nov	24	Sales and earnings for 10 years - A neat Canadian caper - report (chart)	Aug	11	27	
Nippon Kakoh studying European synthetic paper market prospects	R	Nov	3	17	Titanium Metallurgical - acquisition of Whitaker's Turner Metals Div.	R	July	28	Union Carbide Mexicana - hydrofluoric acid unit at Apodaca, near Monterrey (chart)	July	14	34	
Swedish Match Co. - "self-destruct" approach to plastic packaging	N	Sept	22	74	Titanium Metals - Henderson, Nev. inop plant: temporary closings begun	Sept	1	8	Union Espanola de Explosivos-Rio-Tinto - dimethyl terephthalate plant and terephthalic acid unit at Tarragona, Spain	R	Dec	8	28
Swift & Co. - Phase II: Queuing for price hikes	Dec	1	17	17	Tokamak Chemical - sulfuric acid plant on Hokkaido island	R	July	14	Forme jointly owned company with Cros to consolidate fertilizer sales	R	Dec	15	33
Sales and earnings, nine-month report	Sept	8	16	16	Toray Industries - carbon fiber unit at Shiga works completed	R	Sept	1	Merger talks with Cros may be delayed because of internal strife within Cros	N	Dec	22	19
Swift Chemical - Consolidated Fertilizers Ltd. see under name					Para-xylene separation process	Aug	11	37	Union des Industries Chimiques - French chemical industry production increased 5.4% in the first half of '71	N	Sept	15	21
Sybron Corp. - Pfaufler Div.: Chemshow exhibits	Dec	8	41	41	Toyco Engineering - fertilizer plant at Tuticorn for the Indian government	Sept	15	23	Union Oil of California - process produces super sulfur recovery from refinery waste gases	N	Sept	22	73
Taylor Instrument Div. - solid-state panel instruments, called Quick-Scan 1300, debut	N	Nov	17	65	Russian contracts for equipment for ammonia plants	R	Dec	15	Unipar - PP unit for Sao Paulo proposed	Dec	8	26	
Taylor Instrument Process Control Div. - solid-state electronic panel instruments at Chemshow	Dec	8	41	41	Technology for Algerian petrochemical complex	N	Oct	20	Uniroyal - ABS capacity increase (table)	Oct	20	23	
vonBerg, William, president: Accountant's three-part package adds up	Nov	17	82	82	VCM plant for Rumania	R	Aug	4	ABS markets (chart)	Aug	25	39	
Syntex Laboratories - acquisition by Diamond Labs approved	R	Sept	1	10	Trailgas Cie. - ozone generators	N	Nov	3	Maleic hydrazide dispute with Louisville Chemical: will the statute of limitations bolster Uniroyal's position?	N	Oct	27	25
					Transcontinental Gas Pipe Line Corp. - planning plant to convert liquid hydrocarbons into synthetic natural gas	Oct	27	17	Vila, George, chairman and president: What chemical makers want after the freeze	Sept	15	15	
					Trans-Southern Pipeline Corp. - solids will move in pipelines using air as transport medium	N	Dec	22	United Foam - acquisition of Stauffer's urethane foam operations	Aug	18	25	
					Transworld Gas Systems - set up to develop liquefaction and transportation of natural gas	R	Aug	18	United Gas Pipeline - SNG plant will use Japan Gasoline's process	N	Dec	8	25
					Trudbenik - Pancevo complex contracts	Nov	17	35	United Nuclear Corp. - partnership with Gulf Oil in new joint venture, Gulf United Nuclear Fuels Corp.	July	14	15	
					Typpi - merger with Rikkihappo; Finns take petrochemical plunge (table)	Aug	4	18	United Polymers - Taiwan approves high-density PE plant	R	Dec	22	21
									U.S. Borax & Chemical - boric acid and borax unit near Madras, India	Sept	15	23	
									Railroads' strike affect	July	14	17	
									U.S. Industrial Chemicals Co. - Gulf Coast chemical plants hard hit by RR strike	Aug	4	10	
									Tuscola, Ill., plant lays off 100 salaried employees	R	Sept	15	18
									U.S.I. Europe - LDPE plant in Antwerp capacity tripled	N	Sept	29	27
									U.S.I. Far East - plans to double capacity of its PE plant at Kaohsiung by seeking permission to build HDPE unit on the island	Nov	3	45	
									Taiwan approves expansion of low-density PE plant	R	Dec	22	21
									U.S. Mineral Products - fireproofing coatings for steel	Aug	11	19	
									U.S. Smelting, Refining & Mining Co. - merger with Federal Pacific Electric being considered	R	Nov	3	19
									Projects doubling of copper production rate and sharp upturn in earnings	Oct	13	27	
									U.S. Steel - price hike proposal (table)	Dec	15	19	
									Steel strike's toll	Aug	11	12	

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War tax case: Treasury Dept. is going to Supreme Court in an attempt to block USS from getting back \$28 million in taxes the co. says it should not have paid 20 years ago	Dec	8	20
USS Chemicals - Neville Island, Pa. plant adds plasticizer unit	R Nov	24	19
Universal Oil Products - auto exhaust-control devices use could double platinum demand by '76 (charts)	Aug	11	16
Boston Gas' SNG plant will employ MRG process	N Oct	27	37
Chemicals & Plastics Group's v-p Robert Price, Jr.: He knows the name of the game	July	14	48
Dissident shareholders considering launching a proxy fight	Aug	18	27
Dividend (third-quarter) being omitted	Sept	8	14
Logan: Hoping the company's single converter can cut two types of emissions	July	28	15
Logan, John, president becomes chief executive officer Jan. 1	R Sept	29	24
'71 second quarter operating loss	July	14	15
Parex process for separating para-xylene	Aug	11	37
Polish export license approved	Sept	8	14
Universal Paperetech Corp. - polyester-reinforced "paper" houses approved by FHA	Aug	11	11
Upjohn - CARG files a petition to halt Agriculture Dept. plans to issue royalty-free, exclusive licenses to Upjohn and Welch Foods	N Sept	22	31
CPR Div. will build urethane manufacturing unit in Fairbanks, Alaska	R Oct	6	15
Fermentation and chemical conversion plant in Puerto Rico	R Dec	8	19
Fine Chemicals Div. develops Photozid, light-sensitive polymer that bonds itself to other materials N Oct 6-48	Oct	27	39
Sales and earnings - third-quarter estimated	Oct	13	28
Tetracycline judgment: U.S. Supreme Court refuses to hear appeal challenging the way money from court judgment will be distributed	N Oct	20	17
Urethane chemical intermediates plant at Delfzijl, Netherlands	R July	28	15
Upjohn Polymer - Netherlands: plant at Delfzijl for production of basic materials for plastics	R July	7	45
Urban Systems - toys: pollution test kits	Dec	22	34
Utah International - Lurgi plant to make gas equivalent to natural gas studied by new group	N Nov	3	51

## V

Valley Nitrogen - Chemical Distributors see under name			
Purchases Early California Industries' chemical fertilizer and pesticide business	R Oct	6	15
Veba Chemie - acquires 50% interest in Kunststoffwerke Hoehn	R Oct	20	30
Aromatics facilities at refinery planned for Rheinburg-Orsoy	R July	7	45
Vectra Corp. - acquired by Chevron Chemical	July	14	14
Vel-Cord Southern - acquired by Newport Chemical	R July	7	15
Velsicol Chemical Corp. - EPA probing chlordane and heptachlor pesticides	Oct	27	17

Solid plasticizers prices	N Sept	22	59
Ventron - borohydride system for mercury removal	N Dec	8	43
Vero Beach Laboratories - Bayer merging six wholly owned subsidiaries	Dec	8	18
Verona Corp. - Bayer merging six wholly owned subsidiaries	Dec	8	28
Vibra Screw - vibrating bins offer new ways to keep bulk solids moving	Aug	4	35
Vistron Corp. - glass-fiber-reinforced plastic at Hawthorne, Calif., plant expansion	R Dec	8	19
Vulcan-Cincinnati - Marathon's isoprene process licensing rights	N Aug	11	40
Vulcan Manufacturing - acquisition by Zurn Industries completed	R Oct	27	21
Vulcan Materials - Baton Rouge workers laid off during construction slowdown band together to win contract maintenance jobs away from AFL-CIO	Sept	1	42

## W

Walden Research Corp. - Project Threshold: 3-year, \$2-million industry-finance study launched to find ways to assure accuracy of air pollution measurements	Sept	15	29
Warner-Lambert - Parke-Davis acquisition: FTC is still seeking to block merger	N July	7	9
Request for order to restrain FTC from charging antitrust violation denied	R July	21	15
Warren Petroleum - contract with NGP	N Sept	22	59
Waugh Controls - in-line blending unravels chemical mixing maze (flow sheets)	Nov	24	35
Welch Foods - CARG files a petition to halt Agriculture Dept. plans to issue royalty-free, exclusive licenses to Upjohn and Welch Food	N Sept	22	31
Wellman-Power Gas - hydrofluoric acid processes using waste recovered from phosphate fertilizer plants	July	14	34
Pipeline-gas-from-natural-liquids plant	N Oct	20	69
Welsbach Co. - ozone adds punch to oxidation of waste waters	Nov	3	53
Western States Machine - centrifuges designs aimed at sludge dewatering	Dec	15	37
Westinghouse Electric Co. - platform-mounted offshore nuclear power plants	Aug	18	98
Westinghouse Research Labs. - garbage cleans up oil	Aug	18	14
Westport Chemicals - wood adhesives operations bought from Monsanto	R Dec	1	21
Weyerhaeuser Co. - employees on the West Coast accept a new 3-year contract	N Sept	1	5
Whitley, W.J. (Co.) - glass-fiber-reinforced light poles	N Aug	4	34
Whittaker Corp. - Brill, Richard, senior v-p: Says Pacific horizons aren't as lush as chemical ones	Nov	3	64
Electron-beam deposits carbon films with some diamond-like properties on room-temperature substrates	July	21	24
Kelly Pipe Div. will be sold to Familian Corp., and its distribution rights to Courier Communications to Resdel Engineering	R July	7	15
Sales and earnings, nine months	Sept	8	16
Turner Metals Div. may be acquired by Titanium Metallurgical	R July	28	18

Williams Brothers Engineering - contract for solid-waste disposal plant for Oklahoma's Indian Nations Council of Governments	R Aug	18	29
Williams Cos. - Resource Sciences see under name			
Wilshire Oil of Texas - Sels suing WOT and 8 other companies and individuals for allegedly conspiring to take control of it "by fraudulent acts and practices"	Sept	29	23
Wilson Laboratories - three-year pact signed	Sept	22	24
Wilson Pharmaceutical & Chemical - Protein Technology Div.: Proteins add muscle to toiletries and cosmetics	Aug	4	21
United Chemical & Organic Products Div. to be sold to Wilson-Sinclair	R July	21	15
Wilson-Sinclair - purchase of United Chemical & Organic Products Div. of Wilson Pharmaceutical & Chemical	R July	21	15
Wintershall AG - process will permit big savings in making chlorinated paraffins	N Dec	1	43
Witco Chemical - Minnig, Max chief operating officer: More of the same in his two new jobs	Aug	25	56
Resigns as president, will join Borden Inc. as corporate v-p and head of its chemical div.	N Sept	8	9
Oil and gas business (table)	July	7	12
Thermosetting resin introduced at plastics show	Nov	10	19
Woolin, M. (Co.) - acquired by International Chemical & Nuclear	R Dec	15	33
Wolf Ridge Joint Venture - Interior Dept. grants lease to mine sodium salts in federal oil shale lands in Colo.	N July	14	10
Wolf Ridge Minerals Corp. - Interior Dept. grants lease to mine sodium salts in federal oil shale lands in Colo.	N July	14	10
Wyandotte Chemicals - chemical hiring: no pickup in '72 (chart)	Nov	3	20
Wyeth Laboratories - Phenegan and Largon: FDA may crack down on phenothiazines	N Nov	24	14

## Y

Yacimientos Petroliferos Fiscales - Argentine petrochemical development plan will be based on findings in survey	Sept	1	16
Petroquímica Bahía Blanca see under name			
Polypropylene plant in Mendoza province planned	N Nov	17	31

## Z

Zaremba Co. - Hooker will acquire the evaporator systems business	R July	7	15
Zegrap - Panco complex contracts	Nov	17	35
Zimpro, Inc. - Navy moves to adopt ship-board sewage treatment process	Dec	15	20
Zoecon Corp. - insect growth regulators: two new juvenile hormone analogs synthesized	N Dec	8	43
Zuliano - Polimeros del Lago see under name			
Zurn Industries - acquisition of Vulcan Mfg. completed	R Oct	27	21





